U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

TIME 09:22:11

TITLE PAGE

C43 West Storage Reservoir South Florida Water Management District

DRAFT

Designed By: Stanley Consultants Estimated By: Stanley Consultants

Prepared By: L.G. Jensen D.R. Drake

Preparation Date: 05/31/06 Effective Date of Pricing: 05/31/06 Est Construction Time: 1095 Days

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Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Bid Item ** PROJECT C43RES:

	QUANTY UOM	QUANTY UOM CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COS
			; ; ; ; ; ; ; ; ; ;			
01 Demolition	1.00 EA	42,792	7.489	12.570	62 850	62850 12
02 Perimeter Dam, Separator Dam	1.00 EA	157.587.087	27.577.740	46 291 207	_	c
Recyc	, and a	000 00	01.10	7 107110101	500 000 1 TO	
	1.00 EA	771 177	4, 151	6,968	34,842	34842.14
Dumb	1.00 EA	45,874,603	8,028,056	13,475,665	67,378,323	67378323
	1.00 EA	4,945,778	865,511	1.452.822	7.264.112	7264113
06 Balancing Structure	1.00 EA	1,777,689	311,096	522,196	2.610.980	2610980
07 Perimeter Canal Structures	1.00 EA	5.569.566	974 674	1 636 060	000000000000000000000000000000000000000	010000
	1 00 EA	000 000	0.00	000 10001	000,000,000	0000000
	1.00 EA	050,000	111/1012	196,413		982065.30
	1.00 EA	7,315,931	1,280,288	2,149,055		10745274
10 Sitework	1.00 EA	2,986,465	522,631	877,274		4386370
11 Site Electrical	1.00 EA	815,000	142,625	239,406		1197031
TOTAL C43 West Storage Reservoir	1 00 5	100 500	30 031 070	100 000 99		,0000000
	VT 00.1		22,1651,65	150,659,00	00,639,03/ 334,298,183 334298183	33429818

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Wed 31 May 2006 Eff. Date 05/31/06

SUMMARY PAGE 1

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Feature ** PROJECT C43RES:

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	QUANTY UOM	M CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
,]]]]]					
01 Demolition						
01.01 Demo Large Pump Station 01.02 Demo Small Pump Station	1.00 EA 1.00 EA	14,659	2,565	4,306	21,531 41,319	21531.03 41319.08
TOTAL Demolition	1.00 EA	42,792	7,489	12,570	62,850	62850.12
02 Perimeter Dam, Separator Dam						
02.01 Clear and Grub		н	1,812,397	3,042,238	15,211,189	1467.55
02.02 Stripping 02.03 Blanket Drain	1070000 CY 192852 CY	419,791	248,463	417,064	2,085,318	1.95
			206,303	346,294	1,731,470	16.23
02.03 Kandom fill Embankment 02.06 Chimney Drain	19772438 CY	59,688,679	10,445,519	17,533,549	87,667,747	4.43
		22,	3,861,465	154,031	32.408.720	5.91
٠, ١	789659 CY	45,7	8,014,893	13,453,570	67,267,849	85.19
02.09 foe Drain Outiall End Treatment	174.00 TON		1,644	2,759	13,796	79.29
		414,8/4	74,503	121,869	609,346	14.86
		ľ.	940, 240	1 665 487	250,620	22200 74
02.95 Cell Instuments & Controls			7,804	13,100	65,501	65501.47
TOTAL Perimeter Dam, Separator Dam	1.00 EA	157,587,087	27,577,740	46,291,207	231,456,034	231456034
03 Recreation Areas	1.00 EA	23,722	4,151	896'9	34,842	34842.14
04 Pump Stations						
04.01 Pump Station 1 - C43P1 04.02 Pump Station 4 - C43P4	1.00 EA	46,726,441 5,148,162	7,127,127	11,963,392	59,816,961 7,561,363	59816961
TOTAL Pump Stations	1.00 EA	45,874,603	8,028,056	13,475,665	67,378,323	67378323
05 Main Outlet Structure						
05.01 Gate S1 05.04 Gate S8	1.00 EA		422,980 442,531	710,002	3,550,009	3550009 3714103
TOTAL Main Outlet Structure	1.00 EA	4,945,778	865,511	1,452,822	7,264,112	7264112
06 Balancing Structure						
06.01 Gate S12	1.00 EA		311,096	522,196	2,610,980	2610980
TOTAL Balancing Structure	1.00 EA	1,777,689	311,096	522,196	2,610,980	2610980

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Feature **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
07 Perimeter Canal Structures						
	1.00 EA 1.00 EA	1,512,861	296,672	444,403	2,222,015 2,489,928	2222015 2489928
07.03 Gate S11		2,361,435	413,251	693,672	3,468,358	3468358
TOTAL Perimeter Canal Structures	1.00 EA	5,569,566	974,674	1,636,060	8,180,300	8180300
08 Crested Spillway						
08.01 Gate CS1 Crest Spillway 08.02 Gate CS2 Crest Spillway	1.00 EA 1.60 EA	392,187 276,453	68,633 48,379	115,205	576,025 406,041	576,025 576024.59 406,041 406040.71
TOTAL Crested Spillway	1.00 EA	668,640	117,012	196,413	982,065	982,065 982065.30
09 Gated Culvert						
		1,325,443	231,952	389,349	1,946,744	1946744
09.02 Gate S9	1.00 EA	837,412	146,547	245,990	1,229,948	1229948
Gate		1,226,511	214,639	360,288	1,801,438	1801438
09.05 Gate S16	1.00 EA	146,392	25,619	43,003	215,013	215013.13
Gate		1.028,163	179,929	302,023	1.510,115	1510115
Gate	1.00 EA	1,022,944	179,015	300,490	1,502,450	1502450
TOTAL Gated Culvert	1.00 EA	7,315,931	1,280,288	2,149,055	10,745,274	10745274
10 Sitework						
10.01 Vehicle Barrier Gate		4,691	821	1,378	6,890	6890.26
	1.00 EA	138,041	24,157	40,550	202,748	202,748 202748.19
10.03 Floating Weed Barrier 10.10 Silt Fence		112,4/1	19,682	57,251	165,192	165,192 165192.23 286,254 2.21
		2,536,365	443,864	745,057	3,725,286	3725286
TOTAL Sitework	1.00 EA	2,986,465	522,631	877,274	4,386,370	4386370
11 Site Electrical						
11.01 Power Line Relocation	1.00 JB	815,000	142,625	239,406	1,197,031	1197031
TOTAL Site Electrical	1.00 EA	815,000	142,625	239,406	1,197,031	1197031
TOTAL C43 West Storage Reservoir	1.00 EA	227,607,274	39,831,273	66,859,637	66,859,637 334,298,183 334298183	334298183

South Florida Water Management District C43 West Storage Reservoir

Variance Report

	IRODB Estimate for			
	Alternative A, Option			
		(30%)Estimate	Variance	Comments
Demolition		\$42,792.00	\$42,792,00	\$42,792,00 Demolition not broken out in BODR
Earthwork	\$135,600,000.00	\$157,587,087.00	\$21,987,087.00	\$21,987,087.00 Slurry Wall not in BODR. Dam 7' higher and added
Recreation Areas		\$23,772.00		\$23.772.00 Recreation not include in RODR
Pump Stations	\$26,300,000.00	\$45,874,603.00		\$19,574,603.00 Added PS4, dewatering cost higher and structure larger
Control Structures	\$6,200,000.00	\$20,277,604.00		\$14,077,604,00 There are 16 control structures and culverts
Sitework		\$2,986,465.00		\$2,986,465.00 Sitework not broken out in RODR
Site Electrical		\$815,000.00		\$815,000,001Site Electrical not broken out in BODR
Subtotal	\$168,100,000.00	\$227,607,323.00	\$5	
Markup	\$84,050,000.00	\$106,690,860.00		\$22,640,860.00 Markup @ BODR was 50% Vs 46.9% at 30%
Total	\$252,150,000.00	\$334,298,183.00	\$82,148,183.00	

Main Outlet Structures	\$4,945,778.00
Balancing Structures	\$1,777,689.00
Perimeter Canal Structures	\$5,569,566.00
Crest Spillways	\$668,640.00
Gated Culverts	\$7,315,931.00
Total	\$20,277,604.00

Notes:
1. Control Structures in Preliminary Estimate includes two Main Outlet Structures, Balancing Structure, three Perimeter Canal Structures, two Crest Spillways and eight Gated Culverts.
2. Site work includes \$2.5 M access road.

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMERY - Sub Feat ** PROJECT C43RES:

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SUMMARY PAGE

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1.95 1.95 16.08 16.23 4.43 4.43 7.22 85.19 79.29 79.29 79.29 79.29 79.29 21531.03 43070.32 4551964 35019.29 3.49 147.28 1.18 24956.63 62850.12 TOTAL COST UNIT COST 65501.47 65501.47 46,291,207 231,456,034 231456034 34,842 34842.14 26,700,714 267,102 1,622,216 43,070 4,551,964 321,894 12,894 12,894 12,894 12,894 24,957 21,531 41,319 62,850 87,667,747 770,153 32,408,720 67,267,849 13,796 609,346 625,655 8,327,435 65,501 15,211,189 2,085,318 14,671,857 65,501 24,593,461 3,042,238 417,064 2,934,371 346,294 17,533,549 15,4631 6,481,744 12,453,570 12,759 121,869 12,665,487 13,100 4,918,692 5,340,143 266,322 324,443 8,614 910,393 7,004 64,379 4,306 8,264 12,570 CONTINGN 2,504 56,671 4,991 13,100 896'9 2,565 4,923 7,489 1,812,397 248,463 1,748,136 206,303 10,445,519 3,81,465 8,014,893 1,644 2,930,285 3,181,362 158,660 193,285 5,132 54,173 38,353 1,492 1,492 2,974 72,603 74,546 992,205 ESCALATN 7,804 7,804 27,577,740 4,151 10,356,554 1,419,791 1,419,735 1,178,873 59,688,679 52,688,679 52,799,387 414,874 414,874 414,874 414,874 5,669,743 16,744,484 18,179,209 18,179,209 106,630 1,104,487 29,324 3,099,324 219,162 8,524 1,092 16,992 16,992 14,659 28,132 42,792 CONTRACT 44,597 44,597 157,587,087 23,722 10365 AC 1070000 CY 192852 CY 106670 LF 19772438 CY 130250 CY 4485936 SF 789659 CY 174.00 TON 41000 CY 234.00 AC 250.00 AC QUANTY UOM 1.00 JB 1.00 JB 1.00 JB 92167 SF 85.00 CY 240430 CY 1.00 EA Equipment Trash Handling System Bridge Toe Drain Outfall End Treatment TOTAL Perimeter Dam, Separator Dam TOTAL Cell Instuments & Controls Concrete Paved Ditch Channel Excavation Septic Tank & Drain Field Sheet Pile Retaining Wall 02.95 Cell Instuments & Controls Earthwork Final Grading Siphon Break Structure 02 Perimeter Dam, Separator Dam 01.01 Demo Large Pump Station 01.02 Demo Small Pump Station Saxophone Discharge Equipment Building Toe Drain Random Fill Embankment 04.01 Pump Station 1 - C43P1 Pump Station 1 Clear and Grub Stripping Blanket Drain TOTAL Demolition Chimney Drain 03 Recreation Areas Slurry Wall Soil Cement Select Fill Seeding Sodding 02.95.95 Controls Pavement 04 Pump Stations Demolition

02.01 02.02 02.03 02.03 02.05 02.06 02.07 02.09 02.09

EQUIP ID: C43RES LABOR ID: C43RES

04.01.01 04.01.02 04.01.03 04.01.04 04.01.05 04.01.06 04.01.08 04.01.09 04.01.10

UPB ID: UP01EA

CREW ID: NAT01A

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Sub Feat ** PROJECT C43RES:

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.01.13 Storm Sewer Piping	1.00 EA	19,797	3,465	5,815	29,077	29077.20
TOTAL Pump Station 1 - C43P1	1.00 EA	40,726,441	7,127,127	11,963,392	59,816,961	59816961
04.02 Pump Station 4 - C43P4						
04.02.01 Pump Station 4 - C43P4 04.02.02 Equipment 04.02.04 Intake Structure 04.02.05 Pump House/ Discharge Structure 04.02.06 Retaining Walls 04.02.06 Stework		719,977 2,024,227 989,029 349,510 89,002 976,418	125,996 354,240 173,080 61,164 15,575 170,873	211,493 594,617 290,527 102,669 26,144 286,823	1,057,466 2,973,083 1,452,636 513,343 130,722 1,434,113	
TOTAL Pump Station 4 - C43P4		5,148,162	900,928	1,512,273	7,561,363	
TOTAL Pump Stations	1.00 EA	45,874,603	8,028,056	13,475,665	67,378,323	67378323
05 Main Outlet Structure						
05.01 Gate S1						
		11,229	1,965	3, 299	16,493	16493.08
05.01.03 Concrete	1.00 EA	677,568	118,574	199,035	995,177	995177.44
05.01.05 Gates	1.00 EA	41,625	7,284	12,227	61,137	61137.13
	1.00 EA	536,029	93,805	157,459	787,291	2
		61,536	10,769	18,076	90,381	
05.01.90 Miscellaneous	1.00 EA	92,477	16,183	27,165	135,825	135825.38
co.ut.93 controls		60,910	10,659	17,892	89,461	89460.90
TOTAL Gate S1	1.00 EA	2,417,027	422,980	710,002	3,550,009	3550009
05.04 Gate S8	-					
		11,229	1,965	3,299	16,493	16493.08
	1.00 EA	651,469	114,007	191,369	956,845	O,
05.04.04 Kip Kap		41,625	7,284	12,227	61,137	61137.13
03.04.03 Gates	1.00 EA	935,437	163,701	274,784	1,373,922	
	1.00 EA	520,025	33,805	157,459	187, 293	
_	1.00 EA	90,750	15.881	18,076	90,381	90380.61
05.04.95 Controls	1.00 EA	200,676	35,118	58,949	294,743	294742.52
TOTAL Gate \$8	1.00 EA	2,528,751	442,531	742,821	3,714,103	3714103
TOTAL Main Outlet Structure	1.00 EA	4,945,778	865,511	1,452,822	7,264,112	7264112

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Sub Feat ** PROJECT C43RES:

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST INIT COST	TSON TIMI
06 Balancing Structure						
06.01 Gate S12						
06.01.03 Concrete		000			•	
06.01.05 Gates	1.00 EA	262,027	101,121	213,348	1,066,742	1066742
06.01.11 Electrical		444,201	77,735	130,484	652,421	
		61,536	10,769	18,076	90,381	90380.61
		82,655	14,465	24,280	121,400	121399.97
06.01.95 Controls	1.00 EA	200,676	35,118	58,949	294,743	294742.52
TOTAL Gate \$12	1.00 EA	1,777,689	311,096	522,196	2,610,980	2610980
TOTAL Balancing Structure	1.00 EA	1,777,689	311,096	522,196	2,610,980	2610980
07 Perimeter Canal Structures						
07.01 Gate S3						
_		2,762	483	811	4,057	4057.00
07.01.02 Sheet Piling	1.00 EA	135,881	23,779	39,915	199,575	
-		361,222	63,214	106,109	530,544	530544.14
07.01.04 Erosion Control System	1.00 JB	19,509	3,414	5,731	28,653	28653.36
		17 762	29,897	50,185	250,924	\sim
_		356,764	62.434	104.799	523 997	523996 80
	1.00 JB	61,536	10,769	18,076	90,381	90380.61
07.01.95 Controls		386,585	67,652	113,559	567,796	567796.23
TOTAL Gate S3	1.00 EA	1,512,861	264,751	444,403	2,222,015	2222015
07.02 Gate S10						
07.02.01 Excavation	1 00 t	202	000		,	,
٠.		212,839	37.247	62.521	312,607	312606 58
_		501,442	87,752	147,299	736,493	736493.50
		23,413	4,097	6,877	34,387	34387.39
07.02.05 Gates		352,498	61,687	103,546	517,731	517731.33
07.02.11 Flortrical	1.00 EA	27,858	4,875	8,183	40,917	40916.66
		514,950	10,769	110,142	550,708	550707.83
07.02.95 Controls	1.00 EA	136,230	23,840	40,018	200,088	200087.62
TOTAL Gate \$10	1.00 EA	1,695,270	296,672	497,986	2,489,928	2489928
07.03 Gate S11					ě	
07.03.01 Excavation	1.00 JB	6,679	1,169	1,962	9,810	9809.57
					•	

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir – South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY – Sub Feat ** PROJECT C43RES:

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09:22:11	PACE
TIME	SIMMARY

	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
				 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
07.03.02 Sheet Piling		450.150	377 87	122 221	231 123	66 531153
_		000 100	000000000000000000000000000000000000000	102,101	100 000	25./51100
		776 160	TCC OFT	242,263	1,269,811	1786771
07:03:04 Etosion control system	1.00 05	30,486	5,335	8,955	44,777	44776.61
	1.00 EA	518,168	90,06	152,212	761,060	761059.98
		44,804	1,841	13,161	62,805	65805.16
07.03.11 Electrical		384,236	67,241	112,869	564,347	564347.22
	1.00 JB	61,536	10,769	18,076	90,381	90380.61
U/.U3.95 Controls	1.00 EA	28,054	4,910	8,241	41,205	41204.82
TOTAL Gate S11	1.00 EA	2,361,435	413,251	693,672	3,468,358	3468358
TOTAL Perimeter Canal Structures	1.60 EA	5,569,566	974.674	1.636.060	8.180.300	8180300
		•			200	
08 Crested Spillway						
Ċ						
U8.U1 Gate CSI Crest Spillway						
08.01.02 Sheet Piling	1.00 EA	7.568	1.324	2 223	11 115	00 41111
		322,165	56,379	94,636	473,180	473179.88
	1.00 EA	50,976	8,921	14,974	74,871	74870.69
08.01.90 Miscellaneous	1.00 EA	11,479	2,009	3,372	16,859	16859.12
TOTAL Gate CS1 Crest Spillway	1.00 EA	392,187	68,633	115,205	576,025	576024.59
08.02 Gate CS2 Crest Spillway						
08.02.02 Sheet Piling	1.00 EA	7,568	1,324	2,223	11.115	11114.90
08.02.03 Concrete		219,553	38,422	64,494	322,468	322468.33
08.02.06 Kip Rap 08.02.90 Miscellaneous	1.00 EA	39,172	6,855	11,507	57,534	57533.99
		101111111111111111111111111111111111111	2000		C20 1 FT	64.67641
TOTAL Gate CS2 Crest Spillway	1.00 EA	276,453	48,379	81,208	406,041	406040.71
TOTAL Crested Spillway	1.00 EA	668,640	117,012	196,413	982,065	982065.30
09 Gated Culvert						
09.01 Gate S7						
		248,569	43,500	73,017		365086.10
US:UI.U4 Erosion Control System		107,119	18,746	31,466		157331.28
		1/0,842	29,897	50,185	250,924	250923.87
	1.00 EA	46.811	8,192	13,751	68,754	111/85.15
		356,764	62,434	104,799		523996.89
		61,536	10,769	18,076		90380.61
09.01.95 Controls		257,693	45,096	75,697		378486.42
	1				1	

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Sub Feat ** PROJECT C43RES:

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	QUANTY UOM	M CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
TOTAL Gate 87.	1.00 EA	1,325,443	231,952	389,349	1,946,744	1946744
09.02 Gate S9						
09.02.03 Concrete	1 00 1					
09.02.04 Erosion Control System	1.00 JB	27.310	16,093	7101/2	135,086	135086.43
_			10,935	18,355	91,775	
	1.00 EA		5,423	9,103	45,513	
			4,345	7,293	36,464	
09.02.11 Electrical		m	62,434	104,799	523,997	L)
09.02.95 Controls	1.00 JB 1.00 EA	181,536	31,769	18,076	90,381	90380.61
TOTAL Gate S9	I.00 EA		146,547	245,990	1,229,948	
69.03 Gate S14						
09.03.03 Concrete			13,477	22,623	113,113	
	1.00 J	73 305	2,203	3, 702	18,510	18510.10
			12,843	21,55/	107,786	107,786 107786.26
_			5,065	8,502	42,509	
	1.00 EA	m	950'09	100,808	504,039	Ŋ
09.03.15 Equipment Building	1.00 JB	61,536	10,769	18,076	90,381	90380.61
		1	10011	007107		07.001010
TOTAL Gate S14	1.00 EA	986,143	172,575	289,679	1,448,397	1448397
09.04 Gate S15						
09.04.03 Concrete		1	19,077	32,023	160,114	160,114 160113.61
			5,158	8,659	43,294	43294.15
09.04.05 Gates	1.00 EA	~1	25,039	42,030	210,150	
09.04.06 Stop Logs			12,273	20,600	103,002	
•	1.00 EA	•	12,237	20,541	102,704	
		356, 764	62,434	104,799	523,997	u)
Controls	1.00 EA		67,652	113,559	567,796	90380.61 567796.23
TOTAL Gate S15	1.00 EA	1,226,511	214,639	360,288	1,801,438	1801438
09.05 Gate S16						
09.05.03 Concrete 09.05.04 Erosion Control System 09.05.06 Stop Logs	1.00 EA 1.00 JB 1.00 EA	46,224 9,327 70,129	8,089 1,632 12,273	13,578 2,740 20,600	67,892 13,700	67,892 67891.96 13,700 13699.55

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Sub Feat ** PROJECT C43RES:

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TIME	STIMMARY

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
09.05.07 Rip Rap	1.00 EA	20,711	3,624	6,084	30,420	30419.59
TOTAL Gate \$16	1.00 EA	146,392	25,619	43,003	215,013	215,013 215013.13
09.06 Gate S17						
09.06.03 Concrete	1.00 EA	67,505	11,813	19,830	99,148	99148.27
09.06.04 Erosion Control System		29,477	5,158	8,659	43,294	43294.15
09.06.05 Gates		62,485	10,935	18,355	91,775	91774.74
	1.00 EA	17,430	3,050	10,300	25,601	25600.67
		59,406	10,396	17,451	87,253	87253.19
09.06.95 Controls	1.00 JB 1.00 EA	61,536 410,020	10,769	18,076 120,443	90,381 602,216	90380.61 602216.20
TOTAL Gate S17	1.00 EA	742,923	130,012	218,234	1,091,169	1091169
09.07 Gate S18						
-	1.00 EA	69,905	12,233	20,535	102,673	102,673 102673.05
	1.00 JB	15,403	2,696	4,525	22,623	22623.09
09.07.05 Gares	1.00 EA	62,485	10,935	18,355	91,775	91774.74
	1.00 EA	17,188	3,008	5,049	25.245	25244.58
	1.00 EA	356,774	62,435	104,802	524,011	524011.37
09.07.15 Equipment Building	1.00 JB	61,536	10,769	18,076	90,381	90380.61
controls		408,449	71,479	119,982	599,910	599910.18
TOTAL Gate S18	1.00 EA	1,028,163	179,929	302,023	1,510,115	1510115
09.08 Gate S19						
09.08.03 Concrete		54,274	9,498	15.943	79.714	79714.32
	1.00 JB	12,600	2,205	3,701	18,507	18506.74
09.08.05 Gates		73,386	12,843	21,557	107,786	107,786 107786.26
09.08.06 Stop Logs	1.00 EA	27,725	4,852	8,144	40,722	40721.73
	1.00 EA	343,176	60,056	100,808	504.039	504039.06
		61,536	10,769	18,076	90,381	90380.61
09.08.95 Controls		431,884	.75,580	126,866	634,330	634330.14
TOTAL Gate S19	1.00 EA	1,022,944	179,015	300,490	1,502,450	1502450
TOTAL Gated Culvert	1.00 EA	7,315,931	1,280,288	2,149,055	2,149,055 10,745,274	10745274

10 Sitework

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1
	1.00 EA	4,691	821	1,378	068,9	6890,26
		138,041	24,157	40,550	202,748	202,748 202748.19
	1.00 EA	112,471	19,682	33,038	165,192	165192.23
10.10 Silt Fence	129402 LF	194,896	34,107	57,251	286,254	286,254 2.21
10.20 Access Road						
	1.00 EA	1,899,512	332,415	557,982		2789908
10.20.02 Aspnalt Paving	1.00 EA	636,853	111,449	187,076	935,378 935377.90	935377.90
TOTAL Access Road	1.00 EA	2,536,365	443,864	745,057	3,725,286	3725286
TOTAL Sitework	1.00 EA	2,986,465	522,631	877,274	4,386,370	4386370
11 Site Electrical						
11.01 Power Line Relocation	1.00 JB	815,000	142,625	239,406	239,406 1,197,031	1197031
TOTAL Site Electrical	1.00 EA	815,000	142,625	239,406	239,406 1,197,031	1197031
TOTAL C43 West Storage Reservoir	1.00 EA	227,607,274	39,831,273	66,859,637	66,859,637 334,298,183 334298183	334298183

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
			1	1		
01 Demolition						
01.01 Demo Large Pump Station 01.02 Demo Small Pump Station	1.00 EA 1.00 EA	14,659 28,132	2,565	4,306	21,531	21531.03 41319.08
TOTAL Demolition	1.00 EA	42,792	7,489	12,570	62,850	62850.12
02 Perimeter Dam, Separator Dam						
02.01 Clear and Grub	10365 AC	10,356,554	1,812,397	3.042.238	15.211.189	1467 55
٠,		1,419,791	248,463	417,064	2,085,318	1.95
02.03 Blanket Drain		9,989,350	1,748,136	2,934,371	14,671,857	76.08
+ 004	19772438 CY	59.688.679	206,303	346,294	1,731,470	16.23
~		524,360	91,763	154,031	770,153	5.91
02.07 Slurry Wall		22,065,512	3,861,465	6,481,744	32,408,720	7.22
02.00 SOII Cement 02.09 Toe Drain Outfall Rnd Troatmont	789659 CY	45,79	8,014,893	13,453,570	67,267,849	85.19
. 0,		414 874	1,644	2, 759	13, 796	79.29
		425,976	74,546	125,130	625,652	2673.73
02.21 Sodding		5,669,743	992,205	1,665,487	8,327,435	33309.74
02.95 Cell Instuments & Controls						
02.95.95 Controls	1.00 EA	44,597	7,804	13,100	65,501	65501.47
TOTAL Cell Instuments & Controls	1.00 EA	44,597	7,804	13,100	65,501	65501.47
TOTAL Perimeter Dam, Separator Dam	1.00 EA	157,587,087	27,577,740	46,291,207	231,456,034	231456034
03 Recreation Areas	1.00 EA	23,722	4,151	6,968	34,842	34842.14
04 Pump Stations						
04.01 Pump Station 1 - C43P1						
04.01.01 Pump Station 1						
04.01.01.01 Substructure						
04.01.01.01.01 Standard Foundations						
04.01.01.01.01.01 Wall Foundations	1.00 LF	985,232	172,416	289,412	1,447,059	1447059
TOTAL Standard Foundations	1.00 SF	985,232	172,416	289,412	1,447,059	1447059

04.01.01.01.02 Special Foundation Conditions

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

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PROJECT C43Rest Storage Reservoir - South Florida Water Management
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** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.01.01.01.02.04 Dewatering	1.00 SF	3,425,211	599,412	1,006,156	5,030,779	5030779
TOTAL Special Foundation Conditions	1.00 SF	3,425,211	599,412	1,006,156	5,030,779	5030779
04.01.01.01.04 Foundation Excavation						
04.01.01.01.04.01 Excavation for Basements	1.00 CY	85,909	15,034	25,236	126,178	126,178 126178.41
TOTAL Foundation Excavation	1.00 CY	85,909	15,034	25,236	126,178	126,178 126178.41
TOTAL Substructure	1.00 SF	4,496,352	786,862	1,320,803	6,604,017	6604017
04.01.01.02 Superstructure						
04.01.01.02.01 Floor Construction						
04.01.01.02.01.03 Floor Decks and Slabs	1.00 SF	25.687	4 495	7 545	101 15	37727 10
		463,324	81,082	136,101	680,507	680506.67
		192,878	33,754	56,658	283,289	283289.04
04.01.01.02.01.52 Intake Bays EL -6 to EL -3.5	1.00 CY	152,870	26,752	44,906	224,528	224528.13
		312,387	54.668	151,249	156,247	756247.04
_		287,379	50,291	84,418	422,089	
Pipe Gallery Slab EL 7		532,045	93,108	156,288	781,441	781440.84
3L 22-EL		547,720	95,851	160,893	804,464	804,464 804463.53
04.01.01.02.01.63 Service Bridge EL 16	1.00 CY	117,684	20,595	34,570	172,848	172,848 172848.15
		148,693	26,023	43,679	218, 393	218392 81
		88,547	15,496	26,011	130,053	
04.01.01.02.01.75 Sand Fill	3730.00 CY	23,624	4,134	6,940	34,698	9.30
TOTAL Floor Construction	1.00 SF	3,447,861	603,376	1,012,809	5,064,046	5064046
04.01.01.02.02 Roof Construction						
04.01.01.02.02.01 Structural Frame 04.01.01.02.02.03 Roof Decks and Slabs	1.00 SF 1.00 SF	1,398,392	244,719 32,794	410,778	2,053,888	053,888 2053888 275,234 275234.44
TOTAL Roof Construction	1.00 SF	1,585,785	277,512	465,824	2,329,122	2329122
04.01.01.02.03 Stair Construction						
04.01.01.02.03.01 Interior Stair Structure	1.00 VLF	33,214	5,813	9,757	48,783	48783.50
TOTAL Stair Construction	1.00 FLT	33,214	5,813	9,757	48,783	48783.50
TOTAL Superstructure	1.00 SF	5,066,861	886,701	1,488,390	7,441,952	7441952

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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** PROJECT OWNER SUMMARY - Assembly **

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32.59 54674.96 5674.78 8916.45 SUMMARY PAGE 13 23,156 23155,63 23155.63 23307.58 14591.22 29,624 29624.50 CONTINGN TOTAL COST UNIT COST 1025635 23307.58 1072098 14591.22 29624.50 970,960 29,624 23,308 14,591 23,308 5,6758,916 1,025,635 214,420 1,072,098 14,591 23,156 194,192 10,935 205,127 4,662 2,918 4,631 4,631 4,662 1,135 2,918 5,925 5,925 3,530 115,689 6,514 122,203 2,777 676 1,062 1,739 3,530 ESCALAIN 2,759 2,759 2,777 1,739 127,739 661,079 37,226 698,305 20,170 15,766 15,766 15,869 3,864 6,071 9,934 20,170 15,869 729,939 9,934 CONTRACT QUANTY UOM 29790 SF 1.00 LF 1.00 SF 1.00 LF 1.00 SF 1.00 SF 1.00 SF 1.00 EA 1.00 EA 1.00 SF 1.00 SF 1.00 SF 1.00 SF 1.00 SF TOTAL Exterior Personnel Doors 04.01.01.04.01.01 Roof Coverings 04.01.01.04.01.06 Gutters and Downspouts 04.01.01.03.03 Exterior Personnel Doors 04.01.01.05.02 Interior Personnel Doors TOTAL Exterior Closure 04.01.01.05.01.01 Fixed Partitions TOTAL Exterior Windows 04.01.01.05 Interior Construction TOTAL Exterior Walls 04.01.01.03.01.01 Exterior Skin 04.01.01.03.01.04 Parapets 04.01.01.03.02 Exterior Windows 04.01.01.03.01 Exterior Walls 04.01.01.03.03.02 Solid Doors 04.01.01.03 Exterior Closure TOTAL Partitions 04.01.01.05.01 Partitions 04.01.01.03.02.01 Windows TOTAL Roofing TOTAL Roofing 04.01.01.04.01 Roofing 04.01.01.04 Roofing

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOIA UPB ID: UPOIEA

18338.54

18,339

3,668

2,185

12,486

1.00 EA

04.01.01.05.02.01 Standard Interior Doors

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
TOTAL Interior Personnel Doors	1.00 EA	12,486	2,185	3,668	18,339	18338.54
04.01.01.05.04 Interior Specialties						
04.01.01.05.04.01 Guard Rails	1.00 EA	20,556	3,597	6,038	30,192	30192.14
TOTAL Interior Specialties	1.00 SF	20,556	3,597	6,038	30,192	30192.14
TOTAL Interior Construction	1.00 SF	53,212	9,312	15,631	78,155	78155.18
04.01.01.06 Interior Finishes						
04.01.01.06.01 Wall Finishes						
04.01.01.06.01.04 Tile and Terrazzo Wall Finishes 04.01.01.06.01.05 Painting to Wall	1.00 SF	7,339	1,284 6,903	2,156 11,588	10,779	10779.33
TOTAL Wall Finishes	1.00 SF	46,787	8,188	13,744	68,718	68717.98
04.01.01.06.02 Flooring and Floor Finishes						
04.01.01.06.02.01 Tile Floor Finishes 04.01.01.06.02.08 Painting and Staining Floors	1.00 SF 1.00 SF	2,995	524	2,476	4,399	4399.33
TOTAL Flooring and Floor Finishes	1.00 SF	11,424	666,1	3,356	16,779	16779.36
04.01.01.06.03 Ceiling and Ceiling Finishes						
04.01.01.06.03.04 Acoustical Ceiling Tiles & Panel 04.01.01.06.03.06 Painting and Staining Ceilings	1.00 SF 1.00 SF	3,361	588 5,911	987	4,937 49,613	4936.76 49613.23
TOTAL Ceiling and Ceiling Finishes	1.00 SF	37,140	6,500	10,910	54,550	54549.99
TOTAL Interior Finishes	1.00 SF	95,351	16,686	28,009	140,047	140047.34
04.01.01.07 Mechanical						
04.01.01.07.10 Piping						
04.01.01.07.10.01 Drainage System 04.01.01.07.10.02 Vacuum Priming System 04.01.01.07.10.03 Cooling Mater Supply System 04.01.01.07.10.04 Maste Fuel & Engine Oil System 04.01.01.07.10.05 Lube Oil Supply System 04.01.01.07.10.07 Potable/Service Mater Supply System 04.01.01.07.10.07 Potable/Service Mater Supply System	1.00 LF 1.00 LF 1.00 LF 1.00 LF 1.00 LF 1.00 LF	1,544,429 418,104 678,949 286,715 112,018 28,398 10,339	270,275 73,168 118,816 50,175 19,603 4,809	453,676 122,818 199,441 84,223 32,905 8,342 3,037	2,268,380 614,090 997,206 421,113 164,526 41,710 15,186	2268380 614089.80 997206.00 421113.33 164526.32 41709.79

CREW ID: NAT01A UPB ID: UP01EA

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U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT	NIT COST
04.01.01.07.10.08 Compressed Air System	1.00 LF	38,418	6,723	11,285	56,427	56426.92
TOTAL Piping	1.00 LF	3,117,371	545,540	915,728	4,578,638	4578638
TOTAL Mechanical	1.00 EA	3,117,371	545,540	915,728	4,578,638	4578638
04.01.01.08 Plumbing						
04.01.01.08.01 Plumbing Fixtures						
.08.01.01 .08.01.03	1.00 EA 1.00 EA 1.00 EA	1,772 955	310 167 237	520 281 398	2,602 1,403 1,992	2601.99 1402.99 1992.37
04.01.01.08.01.08 Service Sink 04.01.01.08.01.09 Kitchen Sink	1.00 EA	1,926 2,215	337 388	566 651	2,829	3253.49
TOTAL Plumbing Fixtures	1.00 EA	8,225	1,439	2,416	12,080	12080.14
64.01.01.08.02 Domestic Water Supply						
04.01.01.08.02.01 Pipes and Fittings	1.00 EA	4,620	808	1,357	6,786	6785.77
TOTAL Domestic Water Supply	1.00 EA	4,620	808	1,357	6,786	6785.77
04.01.01.08.03 Sanitary Waste and Vent System						
04.01.01.08.03.01 Waste Pipe and Fittings 04.01.01.08.03.03 Floor Drains	1.00 EA 1.00 EA	2,196 2,127	384 372	645	3,225	3225.33
TOTAL Sanıtary Waste and Vent System	1.00 EA	4,323	757	1,270	6,350	6349.95
04.01.01.08.05 Plumbing Equipment						
04.01.01.08.05.01 Domestic Water Equipment	1.00 EA	629	110	185	924	923.83
TOTAL Plumbing Equipment	1.00 EA	629	110	185	924	923.83
TOTAL Plumbing	1.00 EA	17,797	3,115	5,228	26,140	26139.70
04.01.01.09 HVAC						
04.01.01.09.04 Distribution Systems						
04.01.01.09.04.01 Air Distribution, Cooling and	1.00 MCF	787,142	137,750	231,223	1,156,114	1156114
TOTAL Distribution Systems	T. OO MRR	787.142	137 750	231.223	7.1. 351 1	115611

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES

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.		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
	04.01.01.09.06 Controls and Instrumentation						
	04.01.01.09.06.90 Controls	1.00 EA	551,157	96,452	161,902	809,511	809,511 809511.33
	TOTAL Controls and Instrumentation	1.00 MBH	551,157	96,452	161,902	809,511	809511.33
	TOTAL HVAC	1.00 MBH	1,338,298	234,202	393,125	1,965,626	1965626
	04.01.01.11 Electric Power And Lighting						
	04.01.01.11.01 Service and Distribution						
	04.01.01.11.01.03 Main Switchboards 04.01.01.11.01.04 Interior Distrib. Transformers 04.01.01.11.01.07 Motor Control Centers	1.00 AMP 1.00 AMP 1.00 AMP	66,835 9,258 414,531	11,696 1,620 72,543	19,633 2,719 121,769	98,164 13,597 608,843	98164.12 13597.12 608843.00
	TOTAL Service and Distribution	1.00 AMP	490,624	85,859	144,121	720,604	720,604 720604.23
	04.01.01.11.02 Lighting and Branch Wiring		·				
	04.01.01.11.02.02 Lighting Equipment	1.00 EA	215,403	37,695	63,275	316,373	316,373 316372.62
	TOTAL Lighting and Branch Wiring	1.00 SF	215,403	37,695	63,275	316,373	316372.62
	TOTAL Electric Power And Lighting	1.00 AMP	706,027	123,555	207,395	1,036,977	1036977
	04.01.01.12 Electrical Systems						
	04.01.01.12.01 Communication, Security & Alarm						
	04.01.01.12.01.01 Fire Alarm Systems 04.01.01.12.01.07 Television Systems 04.01.01.12.01.08 Security Systems	1.00 OUT 1.00 OUT 1.00 SYS	50,599 61,600 38,624	8,855 10,780 6,759	14,863 18,095 11,346	74,317 90,475 56,728	74316.85 90475.16 56728.39
	TOTAL Communication, Security & Alarm	1.00 SF	150,822	26,394	44,304	221,520	221,520 221520.41
	04.01.01.12.02 Special Electrical Systems		,				
	04.01.01.12.02.01 Instuments & Controls	1.00 EA	29,679	5,194	8,718	43,592	43591.55
	TOTAL Special Electrical Systems	1.00 SF	29,679	5,194	8,718	43,592	43591.55
	TOTAL Electrical Systems	1.00 SF	180,502	31,588	53,022	265,112	265,112 265111.96
	04.01.01.13 Equipment						

04.01.01.13 Equipment

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

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05/77 C90/T FF0/6	C6/7 CC0/T 550/C	Precast Concrete Bridge Deck 74,345 13,010 21,839 12 Concrete Guardrail 5,728 Concrete Guardrail 5,728 Chardenis	End Bent 7,022 1,229 2,063 End Bent 12,117 2,121 3,559 Approach Slabs 40,679 7,119 11,949 Precast Concrete Bridge Deck 74,455 13,010 21,839 1 Concrete Guardrail 5,728		QUANTY UOM CONTRACT ESCALAIN CONTINGN TOTAL COST UNIT COST	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		246,729 246,729 7,985	146,988 14,757 11,502 163,247 17,129 17,12	839,930 27,181 65,729 932,840 932,840 932,840 119,666 819,566 119,666 119,7	1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA	o o o o o o o o o o o o o o o o o o o	
TOTAL Trash Handling System Bridge 181,856 31,825 53,420 267,102	181,856 31,825 53,420		.07 Steel Ghandrail 2 748	Pumps Pumps 3,807,817 666,368 1,118,546 5,592,731 Pumps Pumps 1,585,203 2,660,877 13,304,333 Cooling Water Pumps 1,585,203 2,660,877 13,304,333 Lubrication Water Pumps 150,543 26,345 44,422 175,559 Lubrication Water Pumps 150,543 26,345 44,222 221,110 Maxter Pumps Aster Pumps 150,763 26,345 44,222 221,110 Maxter Pumps Aster Pumps 160,763 13,095 21,980 109,901 Compressed Air System 160,763 17,755 4,889 8,156 40,780 Vacuum Pumps 160,765 17,65 4,899 41,662 41,662 41,662 Trash Rave 1.00 EA 286,795 66,514 1,135,577 5,677,886 Auxillary Bay Trash Screen 1.00 EA 281,915 49,335 12,462 414,662 41 ToTAL Equipment 18,179,209 3,181,362 5,340,143 26,700,714	Execution 1.00 EA 839,930 146,988 246,729 1,233,647 25 top Logs 27,181 4,757 7,985 39,923 39,923 39,923 39,923 39,923 39,923 39,923 39,923 30,923 30,923 39,923	# 1 2	267,10	53,420	31,825	181,856	•		
		Precast Concrete Bridge Deck 74,345 13,010 21,839 Concrete Guardrail 5,728 Steel Guardrail 2,745	Approach Slabs 18,849 3,299 5,537 Precast Concrete Piling 40,679 7,119 11,949 Precast Concrete Bridge Deck 74,345 13,010 21,839 1 Concrete Guardrail 19,500 3,412 5,728	Pumps Pumps Pumps Pumps Pumps Pump Engine Pump Engine Pump Engine Pump Engine Pump Engine Pumps Pump Engine Pumps Pump Engine Pumps Pump Engine Pumps	Exercised and Moveable Equipment Exercised Algorithms Exerci	. 40077	27,68 59,74 109,19 28,64 13,72	5,537 11,949 21,839 5,728 2,745	3,299 7,119 13,010 3,412 1,635	18,849 40,679 74,345 19,500 9,344			
181,856 31,825 53,420	181,856 31,825 53,420		.07 Steel Guardrail 9,344 1,635 2,745	Pumps 3,807,817 666,368 1,118,546 5,592,731 Pumps Pumps 1,585,204 2,660,877 13,304,333 Cooling Water Pumps 19,656 20,942 25,152 175,759 Lubrication Water Pumps 150,543 24,422 175,759 Lubrication Water Pumps 150,543 26,345 44,222 221,110 Wacuum Pumps 150,543 26,345 44,222 221,110 Dotable Water System 160,571 17,65 26,460 122,300 Potable Water System 160,591 28,522 47,876 40,780 Vacuum Pumps 160,514 17,139 40,886 40,780 Trash Rave 1.00 EA 3,865,795 67,514 1,135,577 5,677,886 Auxillary Bay Trash Screen 1.00 EA 3,865,795 67,514 11,135,577 5,677,886 Auxillary Bay Trash Screen 1.00 EA 281,915 11,4062 11,4062 11,4062 11,4062 11,4062 11,4062 11,4062 11,707 11,4062	1.00 EA 839,930 146,988 246,729 1,233,647 27,131 4,777 7,985 39,923 28,729 1,233,647 7,985 39,923 28,729 1,233,647 7,985 39,923 28,729 1,233,647 7,985 39,923 28,729 1,233,647 1,306 2,306 28,729 1,233,647 1,306 2,306 28,729 1,307,108 28,729 1,307,108 3,807,817 1,008 1,285,203 2,660,877 1,304,383 3,807,817 1,008 1,009,304 1,285,203 2,660,877 13,304,383 3,807,817 1,008 1,009,304 1,285,203 2,660,877 13,304,383 3,807,817 1,008 1,009,304 1,285,203 2,660,877 13,304,383 3,807,817 1,008 1,009,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3,808,304 1,009,304 1,009,304 3	. 2	267,10	53,420	31,825	181,856		TOTAL Trash Handling System Bridge	
End Bent 7,022 1,229 2,063 Intermediate Bent 12,117 2,121 3,559 Intermediate Bent 12,117 2,121 3,559 Approach Slabs 4,679 7,119 11,949 Precast Concrete Blidge Deck 74,345 13,010 21,839 Concrete Guardrail 1,635 2,745	End Bent 7,022 1,229 2,063 Intermediate Bent 2,117 2,129 2,063 Intermediate Bent 3,559 Approach Slabs 18,849 3,599 5,537 Precast Concrete Piling 40,679 7,119 11,949 Concrete Guardrail 1,945 13,010 21,839 19,500 3,412 5,728 Steel Guardrail 2,745 2,745	End Bent 7,022 1,229 2,063 Intermediate Bent 12,117 2,121 3,559 Approach Slabs 18,849 3,299 5,537 Precast Concrete Piling 40,679 7,119 11,949		Pumps 3,807,817 666,368 1,118,546 5,592,731 Pump Engline 9,658,304 1,585,203 2,660,877 13,304,333 Cooling Water Pumps 19,666 20,942 17,13,304,333 Lubrication Water Pumps 13,028 14,561 24,442 122,211 Vacuum Pumps 150,543 26,345 44,222 221,110 Water Fuel & Engline Oil Equipt 466,314 79,885 134,042 2021,110 Potable Water System 74,825 13,035 21,1980 109,901 Vacuum Pumps 1.00 EA 3,665,314 1,185,77 5,677,88 Vacuum Pumps 1.00 EA 3,665,314 1,185,77 5,677,88 Vacuum Pumps 1.00 EA 3,665,91 47,876 239,378 Irasn Rave 1.00 EA 3,665,91 1,135,577 5,677,88 Auxillary Bay Irash Screen 1.00 EA 3,181,362 5,340,143 26,700,714	Existed and Moveable Equipment Bridge Crane Stop Logs Stop Logs Leavator Loo SF 27,181 4,777 7,988 246,729 1,233,647 Stop Logs Leavator Loo SF 65,729 11,502 19,308 96,339 Exercised and Moveable Equipment 1.00 SF 932,840 165,247 274,022 1,370,108 Demp Station 1 16,744,484 2,930,285 4,918,692 24,593,461 Loo SF 932,840 165,247 274,022 1,370,108 Demp Station 1 16,744,484 2,930,285 4,918,692 24,593,461 Loation Water Pumps Loation Water System Equipment 190,686 30,076 15,763 26,460 132,300 Leavator 100 EA 3,865,795 616,514 1135,577 5,677,886 Llary Bay Trash Screen 1.00 EA 281,915 69,318 174,062 41,889 Loo EA 281,915 65,340,143 26,700,714								
End Bent End Bent Intermediate Bent Approach Stabs Precast Concrete Piling Precast Concrete Guardrail Steel Guardrail	End Bent 7,022 1,229 2,063 1 Intermediate Bent 2,117 2,121 3,559 1,539 1 1,249 3,299 5,539 1 1,249 3,299 5,539 1 1,349 5,679 7,119 11,349 5,679 7,119 11,349 5,679 7,119 11,349 5,679 7,119 11,349 5,679 7,119 11,349 5,679 7,119 11,349 5,600 5	End Bent 7,022 1,229 2,063 Intermediate Bent 12,117 2,121 3,559 Approach Slabs 18,849 3,299 5,537 Precast Concrete Piling 40,679 7,119 11,949		Pumps 3,807,817 666,368 1,118,546 5,592,731 Pump Engine 9,658,304 1,585,203 2,660,877 13,304,333 Cooling Mater Pumps 19,666 20,942 35,152 175,759 Lubrication Mater Pumps 83,208 14,561 24,442 125,21 Vacuum Pumps 150,543 26,345 44,222 221,110 Maste Full & Engline Oil Equipt 46,314 79,855 134,042 121,300 Dotable Water System 74,826 13,095 26,460 132,300 Compressed Air System 162,981 28,522 47,876 40,389 Vacuum Pumps 100,801 28,522 47,876 239,378 Trash Rake 1.00 EA 3,865,795 676,514 1,135,577 5,677,886 Auxillary Bay Trash Screen 1.00 EA 281,556 49,335 82,812 414,662 414,662	Exidge Crane Stop Logs Stop Logs Elevator Dono EA 65,729 Stop Logs Elevator Dono EA 65,729 Stop Logs Elevator Dono EA 65,729 Dono EA 66,729 Dono EA 65,729 Dono EA 66,729 Dono EA 66,729 Dono EA 7,826 Dono EA 7,826 Dono EA 7,826 Dono EA 1,118,546 Dono EA 1,118,547 Dono EA 1,118,18 Dono EA 1,118,18 Dono EA 1,118,18 Do	4	26,700,71	5,340,143	3,181,362	18,179,209		TOTAL Equipment	
ToTAL Equipment 18,179,209 3,181,362 5,340,143 26,7 rasn Handling System Bridge End Bent 7,022 1,229 2,063 Intermediate Bent 18,849 3,299 5,537 Approach Slabs 18,849 3,299 5,537 Approach Concrete Piling 40,679 7,119 11,949 Precast Concrete Bridge Deck 74,45 13,010 21,839 Concrete Guardrail 5,728 Steel Guardrail 2,745 2,745 Steel Guardrail 2,745 2,745	ToTAL Equipment 18,179,209 3,181,362 5,340,143 26,78	TOTAL Equipment 18,179,209 3,181,362 5,340,143 26,71	TOTAL Equipment 5,340,143		Elevator Stop Enguipment 1.00 EA 839,930 146,988 246,729 1,233,647 29 50 233,647 29 246,729 1,233,647 29 246,729 1,233,647 29 246,729 1,233,647 29 246,729 1,233,647 29 24,533,647 29 24,593,461 2,930,285 4,918,692 24,593,461	41	13,	1,118,546 2,660,877 23,4152 24,442 44,222 134,042 26,20 21,980 8,156 47,876 1,135,577 1,135,577	1,585,203 20,342 14,561 26,345 79,855 15,763 13,095 4,889 28,522 676,114	3,807,817 9,058,304 1,0566 83,208 1150,543 456,314 90,076 74,826 27,765 1162,981 3,865,795	1.00 EA		
Pumps Pumps 3.807,817 666,368 1,118,546 5,592,731 Pump Engline 9,058,304 1,585,203 2,660,877 13,304,383 Cooling Water Pumps 19,666 20,942 35,152 175,799 Location Water Pumps 150,543 26,345 44,222 221,110 Vacuum Pumps 150,543 26,345 44,222 221,110 Maste Fluit & Engline oil Equipt 456,314 79,885 134,042 132,00 Potable Water System 7,826 13,095 21,860 109,91 Compressed Air System 100 EA 3,865,795 675,514 40,222 221,110 Compressed Air System 100 EA 3,865,795 675,34 47,876 40,993 Trash Rake 100 EA 3,865,795 675,14 11,35,57 5,677,86 Auxillary Bay Trash Screen 1.00 EA 281,915 49,335 82,812 414,062 41 ToTAL Equipment 1 1 1 1 1 1 1	Pumps Pumps Pumps Pumps Pumps Pump Engine 9,058,304 1,585,203 2,660,877 13,304,383 Pump Engine 1,585,203 2,660,877 13,304,383 Lourication Water Pumps 83,208 14,561 24,442 1759 Vacuum Pumps 150,543 14,561 24,442 127,111 Vacuum Pumps 150,543 17,563 26,345 14,222 221,110 Vacuum Pumps 150,543 17,563 13,095 21,980 109,901 Compressed Air System 160,291 13,095 21,980 109,901 Vacuum Pumps 160,291 28,522 47,876 40,389 Vacuum Pumps 160,61 24,825 14,062 109,901 Vacuum Pumps 160,61 17,86 17,787 17,786 Auxillary Bay Trash Screen 1.00 EA 281,785 47,462 21,716 41,462 11,135,77 5,677,88 Auxillary Bay Trash Screen 1.00 EA 281,715 41,316 11,135,77 </td <td>Pumps English Programs Pump English Programs Pumps Pump English Programs Pumps Pump English Programs Pumps Pumps</td> <td>Pumps Pumps 3.807,817 666,368 1.118,546 5.592,731 Pump Engine 9,058,304 1,585,203 2,660,877 13,304,383 Cooling Water Pumps 19,666 20,942 35,152 175,759 Vacuum Pumps 150,543 26,345 44,422 221,110 Waste Fuel & Engine Oil Equipt 90,076 15,763 26,460 132,300 Potable Water System 74,825 13,095 21,985 134,042 221,110 Potable Water System 74,826 13,095 21,985 134,042 132,300 Compressed Air System 74,826 13,095 21,980 109,901 Vacuum Pumps 1.00 EA 38,557 44,829 8,156 40,780 Trash Rake 1.00 EA 281,915 40,335 82,812 414,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662</td> <td></td> <td>Existing Crane Moveable Equipment 1.00 EA 839,930 146,988 246,729 1,233,647 1,985 246,729 1,233,647 1,00 EA 65,729 11,502 1,338 95,539 1,933 Elevator 1.00 SF 932,840 163,247 274,022 1,370,108 1,000 EA 65,729 163,247 274,022 1,370,108 1,000 EA 65,729 1,370,108 1,370,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Pumps English Programs Pump English Programs Pumps Pump English Programs Pumps Pump English Programs Pumps	Pumps Pumps 3.807,817 666,368 1.118,546 5.592,731 Pump Engine 9,058,304 1,585,203 2,660,877 13,304,383 Cooling Water Pumps 19,666 20,942 35,152 175,759 Vacuum Pumps 150,543 26,345 44,422 221,110 Waste Fuel & Engine Oil Equipt 90,076 15,763 26,460 132,300 Potable Water System 74,825 13,095 21,985 134,042 221,110 Potable Water System 74,826 13,095 21,985 134,042 132,300 Compressed Air System 74,826 13,095 21,980 109,901 Vacuum Pumps 1.00 EA 38,557 44,829 8,156 40,780 Trash Rake 1.00 EA 281,915 40,335 82,812 414,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662 14,662		Existing Crane Moveable Equipment 1.00 EA 839,930 146,988 246,729 1,233,647 1,985 246,729 1,233,647 1,00 EA 65,729 11,502 1,338 95,539 1,933 Elevator 1.00 SF 932,840 163,247 274,022 1,370,108 1,000 EA 65,729 163,247 274,022 1,370,108 1,000 EA 65,729 1,370,108 1,370,								
Pumps Pumps	Pumps	Pump Engline Pumps Pump Engline	Pump Engine Pump E		Existing Crane Bridge Crane 1.00 EA 839.930 146,988 246,729 1,233.647 1.00 EA 65,729 11.502 19,308 95,539 11.00 EA 65,729 11.502 19,308 96,539 11.502 19,308 96,539 11.502 11.00 SF 932,840 163,247 274,022 1,370,108 163,247 274,022 1,370,108	ļ er	24,593,46	4,918,692	2,930,285	16,744,484		TOTAL Pump Station 1	
TOTAL Pump Station 1 16,744,484 2,930,285 4,918,692 24,593,461 guipment Pumps Pumps Cooling Water Pumps Cooling Water Pumps Cooling Water Pumps Cooling Water Pumps Lobe Oil Pumps Lobe Oil Pumps Lobe Oil Pumps Compressed Air System Compressed Air System Lobe Oil Pumps Compressed Air System Lobe Oil Pumps Compressed Air System Lobe Oil Pumps Compressed Air System Compressed Air System Lobe Oil Pumps Compressed Air System Com	TOTAL Pump Station 1 16,744,484 2,930,285 4,918,692 24,593,461 quipment Pumps Pumps Pump Station 1 10,058,334 1,585,203 2,660,877 13,304,333 119,666 20,942 35,152 175,759 10,058,334 1,585,203 2,660,877 13,304,333 119,666 20,942 35,152 175,759 10,058,334 19,855 134,042 122,211 10,058 3,208 14,651 24,442 122,211 10,058 3,208 14,651 24,462 122,211 10,058 3,208 14,651 24,462 122,211 10,058 3,208 14,651 24,462 122,211 10,058 3,208 14,651 24,462 122,211 10,058 3,208 14,651 24,462 122,211 10,058 3,208 14,652 134,042 122,211 10,058 3,208 14,859 11,797 5,677,886 10,00 EA 3,865,795 676,314 1,135,577 5,777 8,	TOTAL Pump Station 1 16,744,484 2,930,285 4,918,692 24,593,461 quipment Pumps Pumps	TOTAL Pump Station 1 16,744,484 2,930,285 4,918,692 24,593,461 quipment Pumps Pumps Pumps Pumps Cooling Water Pumps Cooling Water Pumps Cooling Water Pumps Cooling Water Pumps Lubrication Water Pumps Waste Fuel & Engine Oil Equipt Lubro Oil Pumps Compressed Air System Compressed Air System Vacuum Pumps Trash Rake Trash Rake TOTAL Equipment TOTAL E	TOTAL Pump Station 1 16,744,484 2,930,285 4,918,692 Equipment	Existing and Moveable Equipment Bridge Crane Stop Logs 1.00 EA 839,930 146,988 246,729 1,233,647 Stop Logs 1.00 EA 839,930 146,988 246,729 1,233,647 Stop Logs 1.00 EA 839,930 14,557 1,985 39,923 ELevator Flixed and Moveable Equipment 1.00 SF 992,840 163,247 274,022 1,370,108		1,370,10	274,022	163,247	932,840		TOTAL Equipment	
TOTAL Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 1,071 1,005	TOTAL Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 16714 Pumps station 1	TOTAL Pump Station 1 TOTAL Equipment TOTAL	TOTAL Equipment TOTAL Pump Station 1 TOTAL	TOTAL Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 TOTAL Pump Station 1 16,744,484 2,930,285 4,918,692 24,593,461	Elevator 1.00 EA 839,930 146,988 246,729 1,233,647 1.00 EA 839,930 146,988 246,729 1,233,647 20 L.233,647 20		1,370,10	274,022	163,247	932,840		TOTAL Fixed and Moveable Equipment	
TOTAL Fixed and Moveable Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 163,247 274,022 1,370,108 163,247 274,022 1,370,108 163,247 274,022 1,370,108 163,247 274,022 1,370,108 163,247 274,022 1,370,108 163,247 2,330,285 4,918,692 24,593,461 16,744,484 2,930,285 4,918,692 24,593,461 17,865 17,865 17,865 17,865 17,875 17,875 17,876 1	TOTAL Fixed and Moveable Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 107AL Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 107AL Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 107AL Equipment 1.00 SF 932,840 1,585,203 2,666,877 13,304,242 17,304,383 11,005 coll by the page 1,585,203 2,666,877 13,544 13,547 13,543 13,544 13,547 13,544 13,547 13,544 13,547 13,547 13,544 13,547 13,544 13,547 13,544 13,547 13,	TOTAL Fixed and Moveable Equipment 1.00 SF 932,840 163,247 274,022 1,370,108	TOTAL Equipment	TOTAL Fixed and Moveable Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 TOTAL Equipment 1.00 SF 932,840 163,247 274,022 1,370,108 TOTAL Pump Station 1 16,744,484 2,930,285 4,918,692 24,593,461	ixed and Moveable Equipment		1,233,64 39,92 96,53	246,729	146,988 4,757 11,502	839,930 27,181 65,729	1.00 EA 1.00 SF 1.00 EA		
Equipment 1.00 EP 839,930 146,988 26,729 1,233,647 25,029 11,00 EP 63,229 11,502 11,508 39,922 2,592,281 11,00 EP 932,840 113,247 274,022 1,370,108 2,501,009 10,00 EP 932,840 113,247 274,022 1,370,108 2,501,009 10,00 EP 932,840 113,247 274,022 1,370,108 1,00 EP 932,840 11,00 EP 932,840 11,00 EP 932,840 11,00 EP 932,840 11,00 EP 93,940 11,00 EP 93,9	Extra blogs Crane 1.00 EA 839,930 146,988 246,729 1,233,647 25 top logs 1.00 SF 6,729 1,737 1,795 39,923 1,00 SF 6,729 1,737 1,795 39,923 1,00 SF 932,840 163,247 274,022 1,370,108 1,281,000 1,00 SF 932,840 163,247 274,022 1,370,108 1,00 SF 9,038,304 1,585,203 2,660,877 13,304,383 1,00 SF 9,038,304 1,585,203 2,660,877 13,304,383 1,00 SF 9,038,304 1,585,203 2,660,877 13,304,383 1,00 SF 9,038,304 1,585,203 2,660,877 13,304,303 1,00 SF 9,038,304 1,585,203 2,660,877 13,304,305 1,00 SF 9,038,304 1,585,203 2,660,877 13,304,305 1,00 SF 9,038,304 1,585,203 2,460 1,00 SF 9,038,304 1,585,203 2,460 1,00 SF 9,038,304 1,00 SF 9,038,304 1,00 SF 9,038,304 1,038,304 1,038,304 1,00 SF 9,038,304 1,00 SF 9,	Bridge Crane 1.00 EA 839 930 146,988 246,729 1,233,647 1,000 EA 65,729 1,5306 1,500 1,50	Elevator Stop Logs Stop Logs Stop Logs Stop Logs Stop Logs Stop Logs Light A,757 Stop Logs Light A,757 Light A,757 Light A,752 Light A,752 Light A,752 Light A,752 Light A,753 Light A,752 Light A,753 Light A,753 Light A,753 Light A,753 Light A,752 Light A,753	Bridge Crane 1.00 EA 839,930 146,988 246,729 1,233,647 5100 EF 27,181 4,757 7,985 39,923 10.00 EF 27,181 14,757 7,985 39,923 10.00 EA 65,729 11,502 19,308 96,539 11,502 10,302 1,233,647 10.00 EA 65,729 11,502 19,308 96,539 10.00 EF 932,840 163,247 274,022 1,370,108 10.00 EF 932,840 10.00 EF 932,840 163,247 10.00 EF 932,840 10.00 EF 932,840 163,247 10.00 EF 932,840 163,247 10.00 EF 932,840 163,247 163,247 10.00 EF 932,840									

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

TIME 09:22:11 SUMMARY PAGE 18

04.01.05 Saxophone bischarge 04.01.05 Saxophone bischarge 04.01.05 Saxophone bischarge 04.01.05 Saxophone bischarge 04.01.05 Of Equipment building 04.01.05 Saxophone bischarge 04.01.05 Saxophone bischarge 04.01.05 Of Equipment building 04.01.05 Saxophone bischarge 04.01.05 Of Equipment building 04.01.05 Saxophone bischarge 04.02 Pump Station 4 - C43P4 04.02 Pump Station 4 - C43P4 04.02 Oil Oil Oil Saxophone conditions 04.02 Oil Oil Oil Saxophone bischarge 04.02 Oil Oil Oil Saxophone bischarge 04.02 Oil		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
FOTAL Siphon Break Structure 966.630 155.660 266,322 1,331,612 Saxophone Discharge 10 Excavation 1.00 Excavation 1.00 Structure 11.00 Structur	90.		4,977	871	1,462	7,310	,
Saxophone Discharge 01 Excavation 02 Coefferdam 0.033,179 0.012 Septiciting 0.02 Septiciting 01 Excavation 02 Coefferdam 0.03 Backfilling 03 Excitation 04 00.02 Backfilling 04 0.02 Backfilling 05 Excitation 05 Excitation 05 Excitation 06 Excitation 06 Excitation 06 Excitation 07 07 Excavation 07 08 099,209 07 099,209	TOTAL Siphon Break Structure		906,630	158,660	266,322	1,331,612	
Decayation 1,000 Excavation 1,000 Excavat							
## Equipment Discharge 1,100 JB 29,324 193,285 334,443 1,622,216 Bquipment Building 1.00 JB 29,324 44,173 43,070 430 Brete Pile Retaining Wall 1.00 JB 3.09,209 542,332 910,393 45,5196 455 Brevenet Parken Drien 2,833 21,832 10,039 32,091 32,091 Brownent Parken Drien 2,833 21,832 10,039 32,091 32,091 Brownent Parken Drien 2,830 27 19,162 34,173 44,173 32,091 32,091 Concete Paved Ditch 2,930 27 21,912 34,091 24,597 24,991 24,991 24,991 Septic Tark & Drain Field 1.00 EA 19,77 3,465 5,815 29,016,961 5981 TOTAL Pump Station 4 - C43P4 7,127,127 11,963,392 59,816,961 5981 TOTAL Pump Station 4 - C43P4 7,127,127 11,963,392 59,816,961 5981 Substructure 1.00 SF 268,883 47,049 78,976 394,878 3948 TOTAL Special Foundation Conditions 1.00 SF 268,883 47,049 78,976 394,878 3948 TOTAL Special Foundation Excavation 1.00 CY 3,210 562 5943 47,714 4771 TOTAL Pump Station Excavation 1.00 CY 3,210 5952 39958 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 39958 39958 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 39958 39958 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 39958 39958 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 39958 39958 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 39958 39958 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 39958 39958 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 39958 39958	01 02 03		4,002 1,093,179 7,307	700 191,306 1,279	1,175 321,121 2,146	5,877 1,605,607 10,732	
Equipment Building Wall 1.00 JB 3,9324 Extract Enter Fine Crading Wall 1.00 JB 3,9324 Extractor Execution Wall 1.00 JB 3,9324 Extractor Execution Wall 1.00 JB 3,9324 Extractor Execution Wall 1.00 JB 3,9324 23,843 23,843 33,761 24,937 24,937 34,653 37,61 24,937 34,653 37,61 36,71 37,71 37	TOTAL Saxophone Discharge		1,104,487	193,285	324,443	1,622,216	
Concrete Paved Ditch Concrete Paved Ditch Channel Excavation Concrete Paved Ditch Channel Excavation Channel			29,324 3,099,209 23,843	5,132 542,362 4,173	8,614 910,393 7,004	43,070 4,551,964 35,019	43070.32 4551964 35019.29
TOTAL Pump Station 1 - C43P1 1.00 EA 40,726,441 7,127,127 11,963,392 59,816,961 Tump Station 4 - C43P4 Pump Station 4 - C43P4 Ol Substructure Ol.02 Special Foundation Conditions Ol.02 Special Foundation Conditions Ol.04 Foundation Excavation Ol.04 Foundation Excavation Ol.04 Foundation Excavation Ol.04 Foundation Excavation Ol.05 Special Foundation Foundation Ol.06 Special Foundation Foundation Ol.07 S,210 S62 943 4,714 TOTAL Foundation Excavation Ol.08 Z,210 S62 943 4,714 TOTAL Foundation Excavation Ol.08 Z,210 S62 943 4,714 Ol.08 Z,210 S62 943 39,592			192,923 16,992 19,797	1,492 33,761 2,974 3,465	2,504 2,504 56,671 4,991 5,815	12,519 12,519 283,355 24,957 29,077	147.28 1.18 24956.63 29077.20
Pump Station 4 - C43P4 Pump Station 4 - C43P4 Ol. Substructure Ol.02 Special Foundation Conditions Ol.02.04 Dewatering TOTAL Special Foundation Excavation Ol.04 Foundation Excavation TOTAL Foundation Excavation TOTAL Substructure 1.00 SF 268,853 47,049 78,976 394,878 1.00 SF 268,853 47,049 78,976 394,878 Ol.04 Foundation Excavation 1.00 CY 3,210 562 943 4,714 TOTAL Foundation Excavation 1.00 CY 3,210 562 943 4,714 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 399,592	1		40,726,441	7,127,127	11,963,392	59,816,961	59816961
Pump Station 4 - C43P4 .01 Substructure .01.02 Special Foundation Conditions .01.02 Special Foundation Conditions .01.04 Foundation Excavation .01.04 Foundation Excavation .01.05 Foundation Excavation .02 Sep.853 .03 4,878 .03 4,878 .04 6 Sep.853 .05 Sep.853 .07 6	Pump Station 4 -	, <u> </u>					
.01.02 Special Foundation Conditions .01.02 Special Foundation Conditions .01.02.04 Dewatering TOTAL Special Foundation Conditions .01.04 Foundation Excavation .01.04 TOTAL Foundation Excavation .01.05 TOTAL Substructure .01.07 S,210	Pump Station 4						
.01.02.04 Dewatering	.01.02						
TOTAL Special Foundation Conditions 1.00 SF 268,853 47,049 78,976 -01.04 Foundation Excavation -01.04.01 Excavation for Foundation 1.00 CY 3,210 562 943 TOTAL Foundation Excavation 1.00 CY 3,210 562 943 TOTAL Substructure 1.00 SF 272,063 47,611 79,918	.01.02.04	1.00 SF	268,853	47,049	78,976		394877.86
.01.04 Foundation Excavation 1.00 CY 3,210 562 943 4,714 1.00 CY 3,210 562 943 4,714 TOTAL Foundation Excavation 1.00 CY 3,210 562 943 4,714 1.00 CY 3,210 562 943 4,714	TOTAL Special Foundation Conditions	1.00 SF	268,853	47,049	78,976	394,878	394877.8
.01.04.01 Excavation for Foundation 1.00 CY 3,210 562 943 4,714 TOTAL Foundation Excavation 1.00 CY 3,210 562 943 4,714 TOTAL Substructure 1.00 SF 272,063 47,611 79,918 399,592 39	.01.04						
1.00 CY 3,210 562 943 4,714 1.00 SF 272,063 47,611 79,918 399,592 39	.01.04.01	1.00 CY	3,210	562	943	4,714	4714.14
1.00 SF 272,063 47,611 79,918 399,592	TOTAL Foundation Excavation	1.00 CY	3,210	562	943	4,714	4714.14
	TOTAL Substructure	1.00 SF	272,063	47,611	79,918		399592.00

04.02.01.02 Superstructure

04.02.01.02.03 Stair Construction

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST	
04.02.01.02.03.01 Interior Stair Structure	1.00 VLF	1,627	285	478	2,390	2389.88	
TOTAL Stair Construction	1.00 FLT	1,627	285	478	2,390	2389.88	
TOTAL Superstructure	1.00 SF	1,627	285	478	2,390	2389.88	
04.02.01.03 Exterior Closure							
04.02.01.03.01 Exterior Walls							
04.02.01.03.01.01 Exterior Skin 04.02.01.03.01.03 Interior Skin	1.00 SF 1.00 SF	10,717	1,876 383	3,148	15,741	15740.84 3212.51	
TOTAL Exterior Walls	1.00 SF	12,904	2,258	3,791	18,953	18953.36	
04.02.01.03.03 Exterior Personnel Doors							
04.02.01.03.03.02 Solid Doors	1.00 EA	8,308	1,454	2,440	12,202	12202.05	
TOTAL Exterior Personnel Doors	1.00 EA	8,308	1,454	2,440	12,202	12202.05	
TOTAL Exterior Closure	1.00 SF	21,212	3,712	6,231	31,155	31155.41	
04.02.01.04 Roofing		٠,					
04.02.01.04.01 Roofing							
04.02.01.04.01.01 Roof Coverings 04.02.01.04.01.05 Roofing Openings & Supports 04.02.01.04.01.06 Gutters and Downspouts	1.00 SF 1.00 SF 1.00 LF	53,701 1,700 1,732	9,398 297 303	15,775 499 509	78,873 2,497 2,544	78873.37 2496.60 2544.36	
TOTAL Roofing	1.00 SF	57,133	866'6	16,783	83,914	83914.34	
TOTAL Roofing	1.00 SF	57,133	866'6	16,783	83,914	83914.34	
04.02.01.05 Interior Construction							
04.02.01.05.02 Interior Personnel Doors							
04.02.01.05.02.01 Standard Interior Doors	1.00 EA	2,542	445	747	3,734	3733.59	
TOTAL Interior Personnel Doors	1.00 EA	2,542	445	747	3,734	3733.59	
04.02.01.05.04 Interior Specialties							
04.02.01.05.04.01 Guard Rails	1.00 EA	15,158	2,653	4,453	22,263	22262.89	

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

377,692 377691.79 1,064,740 1064740 3,527 3526.99 39,466 39466.28 TIME 09:22:11 SUMMARY PAGE 20 TOTAL COST UNIT COST 48783.46 71046.35 74779.94 39,466 39466.28 83,202 83202.47 83202.47 122,669 122668.75 342,965 342965.38 342,965 342965.38 594,617 2,973,083 991027.77 74,780 48,783 71,046 83,202 342,965 1,057,466 2,973,083 211,493 594,617 CONTINGN 9,757 14,956 7,893 7,893 16,640 24,534 68,593 68,593 68,593 75,538 212,948 705 14,209 16,640 45,002 126,863 420 8,910 4,702 14,616 354,240 8,465 4,702 9,913 9,913 40,864 ESCALATN 354,240 40,864 125,996 U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** 257,152 724,930 2,401 48,372 26,871 83,519 50,914 26,871 56,648 CONTRACT 33,214 56,648 233,508 233,508 2,024,227 2,024,227 233,508 1.00 MBH 1.00 MBH 1.00 AMP 1.00 AMP QUANTY UOM 1.00 MBH 1.00 MCF 3.00 3A 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 SF 1.00 SF 1.00 SF 04.02.01.09.04.01 Air Distribution, Cooling and TOTAL Controls and Instrumentation 04.02.01.09.06 Controls and Instrumentation 04.02.01.11.01.9X Service And Distribution TOTAL Service and Distribution TOTAL Pump Station 4 - C43P4 TOTAL Interior Construction 04.02.01.11.01 Service and Distribution 04.02.04.01 Footing 04.02.04.02 Abutments, Piers, Backwall 04.02.04.03 Intake Noses TOTAL Interior Specialties TOTAL Distribution Systems 04.62.01.09.04 Distribution Systems 04.02.01.05.04.03 Stairs & Ladders 04.02.02.01 Barrel Pump & Motor TOTAL Electrical TOTAL Equipment 04.02.01.09.06.90 Controls 04.02.04 Intake Structure TOTAL HVAC 04.02.01.11 Electrical 04.02.02 Equipment PROJECT C43RES: 04.02.01.09 HVAC

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECI OWNER SUMMARY - Assembly ** PROJECT C43RES:

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		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	NIT COST
	04.02.04.04 Keyway	1.00 EA	4,546	961	1,335	6,677	6676.62
	TOTAL Intake Structure		989,029	173,080	290,527	1,452,636	
	04.02.05 Pump House/ Discharge Structure						
	01 02		36,880 25,443	6,454	10,834	54,168	
	03		71,903	12,583	21,122 9,458	105,608	
	04.02.05.05 Beams 04.02.05.06 Chamber Walls		46,603	9,156	13,690		
	04.02.03.09 Intake Slab 04.02.05.09 Intake Slab 04.02.05.10 Discharge Chamber Keyway 04.02.05.11 Equipment Pads		58,302 16,478 4,082 1,235	10,203 2,884 714 216	17,126 4,841 1,199 363	85,631 24,203 5,996 1,813	
	TOTAL Pump House/ Discharge Structure		349,510	61,164	102,669	513,343	
	04.02.06 Retaining Walls 04.02.10 Sitework		89,002 976,418	15,575 170,873	26,144 286,823	130,722	
	TOTAL Pump Station 4 - C43P4		5,148,162	900,928	1,512,273	7,561,363	
	TOTAL Pump Stations	1.00 EA	45,874,603	8,028,056	13,475,665	67,378,323	67378323
	05 Main Outlet Structure						
	05.01 Gate S1		,				
	05.01.02 Sheet Piling	1.00 EA	11,229	1,965	3,299	16,493	16493.08
	05.01.03 Concrete						
	05.01.03.01 Conduits						
	05.01.03.01.10 Typical Conduit						
	05.01.03.01.10.01 Base Slab 05.01.03.01.10.02 Center Haunch 05.01.03.01.10.03 Top Slab 05.01.03.01.10.04 Walls	1.00 EA 1.00 EA 1.00 EA	66,822 3,729 80,810 58,470	11,694 653 14,142 10,232	19,629 1,095 23,738 17,175	98,145 5,477 118,689 85,877	98145.33 5476.71 118689.49 85877.47
	TOTAL Typical Conduit	1.00 EA	209,831	36,720	61,638	308,189	308189.00
	05.01.03.01.15 Conduit at Gatewell		-				
	05.01.03.01.15.01 Base Slab	1.00 EA	22,863	4,001	6,716	33,581	33580.67
LABOR ID: C43RES EQUIP ID: C43RES	Currency in DOLLARS				CREW ID: NAT01A	LA UPB ID: UP01EA	JP01EA

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C43 West Storage Reservoir - South Florida Water Management
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Top Slab Walls L Conduit at Gatewell L Conduits L Conduits L Conduits L Conduits L Conduits L Conduits Walls (I to Flow) L Gatewell L Top Baams Handwall L Top Baams Handwall L Top Baams L Tansition To Conduit L Intake L						
TOTAL Conduit at Gatewell 1.00 TOTAL Conduits 1.00 Gatewell 2.10 Gatewell 1.00 2.10 Gatewell 1.00 2.10.01 Walls (I to Flow) 1.00 TOTAL Gatewell 1.00 TOTAL Gatewell 1.00 TOTAL Gatewell 1.00 3.01.01 Base Slab 1.00 3.01.02 Top Girders 1.00 3.01.03 Top Beams 1.00 3.01.04 Headwall 1.00 3.01.05 Transition To Conduit 1.00 3.01.06 Transition To Conduit 1.00 3.01.07 Transition To Conduit 1.00 3.01.08 Malls (II to Flow) 1.00 3.01.09 Divider Wall (II to Flow) 1.00 3.01.08 Malls (II to Flow) 1.00 3.01.08 Malls (II to Flow) 1.00 3.01.08 Transition To Conduit 1.00 3.01.08 Walls (II to Flow) 1.00 3.01.08 Walls Sain Parabolic 1.00 3.01.01 Stilling Basin Parabolic 1.00 3.01.02 Base Slab		22,784 29,145	3,987	6,693	33,464	33464.11
TOTAL Conduits 2		74,793	13,089	21,970	109,852	109851.65
2.10 Gatewell 2.10 Gatewell 2.10.01 Walls (I to Flow) 2.10.02 Walls (II to Flow) 2.10.03 Air Vent Castings 2.10.03 Air Vent Castings 2.10.03 Air Vent Castings 3.01.04 Gatewell 3.01.07 Top Baams 3.01.01 Base Slab 3.01.05 Backside Intake Double Wall 3.01.05 Backside Intake Double Wall 3.01.05 Top Baams 3.01.07 Transition To Conduit 3.01.08 Walls (II to Flow) 3.01.09 Divider Wall (II to Flow) 3.01.09 Divider Wall (II to Flow) 3.01.09 Lorder Columns 3.01.00 Canter Columns 4.01.00 Lorder Salab 4.00 6.01.01 Canter Columns 6.01.01 Canter Salab 6.01.01 Canter Salab 7.00 7.01.01 Walls 6.01.01 Walls 6.01.01 Walls 6.01.01 Stilling Basin Parabolic 6.01.02 Base Slab	1.00 EA	284,623	49,809	83,608	418,041	418,041 418040.65
2.10 Gatewell 2.10.01 Walls (I to Flow) 2.10.02 Walls (II to Flow) 2.10.02 Walls (II to Flow) 2.10.03 Air Vent Castings 2.10.03 Air Vent Castings 3.10.01 Ease Slab 3.01 Intake 3.01.01 Base Slab 3.01.01 Base Slab 3.01.02 Top Girders 3.01.03 Top Basms 3.01.04 Transtion To Conduit 3.01.05 Backside Intake Double Wall 3.01.06 Transtion To Conduit 3.01.07 Transtion To Conduit 3.01.08 Walls (II to Flow) 3.01.09 Divider Wall (II to Flow) 3.01.09 East Slab 3.01.01 Center Columns 4.01.01 Center Columns 5.01.01 Stilling Basin Parabolic 6.01.01 Stilling Basin Parabolic 7.01.02 Base Slab 7.00.02 Base Slab						
1.00 Walls (I to Flow) 1.00 1						
L Gatewell L Gatewell L Gatewell L Gatewell Ke Base Slab Top Girders Top Girders Top Girders Top Girders Transtion To Condut Transtion Transtion Transcion		27,219 18,017 1,451	4,763 3,153 254	7,995 5,292 426	39,977 26,462 2,131	39977.35 26462.35 2131.22
L Gatewell L Gatewell L Gatewell Read Slab Top Beams Top Beams Top Beams Top Beams Transition To Conduit To Cond		46,687	8,170	13,714	68,571	68570.91
### A property of the property		46,687	8,170	13,714	68,571	68570.91
Base Slab Base Slab Top Girders 1.00 Top Beams Headwall Backside Intake Double Wall 1.00 Transition To Conduit Transition To Conduit Malls (II to Flow) Divider Wall (II to Flow) L Intake 1.00 L Intake 1.00 L Intake 1.00 L Intake 1.00 Walls 1.00 Walls 1.00 Walls 1.00 Walls 1.00 Walls 1.00 Walls 1.00						
Base Slab Top Girders Top Beams Top Beams Top Beams Tob Beams Tobustion Transition To Conduit Transition To Co						
Top Beams 1.00 Headwall 1.00 Backside Intake Double Wall 1.00 Transition To Conduit 1.00 Transition To Conduit 1.00 Divider Wall (II to Flow) 1.00 Center Columns 1.00 L Intake 1.00 L Intake 1.00 Ling Basin 1.00 Walls 1.00 Walls 1.00 Walls 1.00 Walls 1.00 Walls 1.00		59,944	10,490	17,609	88,043	88043.29
Headwall Backside Intake Double Wall Transition To Conduit 1.00 Transition To Conduit 1.00 Malls (II to Flow) Lintake		3,229	885 565	1,485	7,425	7425.44
Backside Intake Double Wall 1.00 Transition To Conduit 1.00 Transition To Conduit 1.00 Walls (II to Flow) 1.00 Divider Wall (II to Flow) 1.00 Center Columns 1.00 L Intake 1.00 L Intake 1.00 L Intake 1.00 L Intake 1.00 Walls 1.00 Walls 1.00 Walls 1.00		29,484	5,160	8,661	43,305	43304.93
Transition To Conduct Walls (II to Flow) Divider Wall (II to Flow) Lintake Lintak		42,640	7,462	12,525	62,627	62626.97
Walls (II to Flow) Divider Wall (II to Flow) Center Columns Lintake Li		830	1,509	2,532	12,661	12661.15
Divider Wall (II to Flow) 1.00 Center Columns 1.00 L Intake 1.00 Ling Basin Parabolic 1.00 Walls Basin Parabolic 1.00 Walls 1.00 Walls 1.00		42,235	7,391	12,407	62,033	62033.15
L Intake 1.00 L Intake 1.00 Ling Basin Lilling Basin Parabolic Walls Base Slab		8,665 3,109	1,516 544	2,545 913	12,726 4,566	12726.02 4565.84
L Intake 1.00 Ling Basin Liling Basin Parabolic Walls Base Slab 1.00		203,811	35,667	59,870	299,348	299348.03
ling Basin cilling Basin Parabolic Walls		203,811	35,667	59,870	299,348	299348.03
cilling Basin Parabolic Malls Base Slab						
Walls 1.00 Base Slab						
	1.00 EA 1.00 EA	32,588 14,224	5,703	9,573	47,864 20,891	47863.98
05.01.03.04.01.03 Shear Key 1.00 EA 05.01.03.04.01.04 Top Slab 1.00 EA	1.00 EA 1.00 EA	1,411 11,544	247 2,020	414	2,072 16,955	2071.69 16954.93
TOTAL Stilling Basin Parabolic 1.00 EA		59,766	10,459	17,556	87,782	87781.98

LABOR ID: C43RES EQUIP ID: C43RES

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
	05.01.03.04.02 Stilling Hydraulic Jump Basın.				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	05.01.03.04.02.01 Walls		42,516	7,440	12,489	62,445	62444.82
			25,704	4,498	7,550	37,752	37752.07
	05.01.03.04.02.03 Toe Support		1,343	235	394	1,972	1972.40
	03.01.03.04.02.04 Chute blocks		624	113	183	917	916.56
		1.00 EA	1 303	111	181	984	984.36
			988.6	1.730	205	14.520	14519 86
			636	111	187	934	
	TOTAL Stilling Hydraulic Jump Basin	1.00 EA	82,680	14,469	24,287	121,436	121,436 121435.87
	TOTAL Stilling Basin	1.00 EA	142,446	24,928	41,844	209,218	209,218 209217.85
	TOTAL Concrete	1.00 EA	677,568	118,574	199,035	995,177	995,177 995177.44
		1.00 EA	41,625	7,284	12,227	61,137	61137.13
	•	1.00 EA	935,653	163,739	274,848	1,374,241	1374241
	US.UI.II Electrical	1.00 EA	536,029	93,805	157,459	787,293	787293.18
	05.01.15 Equipment building		92.477	10,769	27,165	135,825	135825 38
		1.00 EA	60,910	10,659	17,892	89,461	89460.90
	TOTAL Gate S1	1.00 EA	2,417,027	422,980	710,002	3,550,009	3550009
	05.04 Gate S8						
	05.04.02 Sheet Piling	1.00 EA	11,229	1,965	3,299	16,493	16493.08
	TOTAL Sheet Piling	1.00 EA	11,229	1,965	3,299	16,493	16493.08
	05.04.03 Concrete						
	05.04.03.01 Conduits						
	05.04.03.01.10 Typical Conduit						
	05.04.03.01.10.01 Base Slab		66,822	11,694	19,629	98,145	
	05.04.03.01.10.03 Center Haunch 05.04.03.01.10.03 Top Slab 05.04.03.01.10.04 Walls		3,729 72,344 58,470	653 12,660 10,232	1,095 21,251 17,175	5,477 106,255 85,877	
	TOTAL Typical Conduit		201,365	35,239	59,151	295,754	
	05.04.03.01.15 Conduit at Gatewell						
	05.04.03.01.15.01 Base Slab		24,216	4,238	7,114	35,568	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
** PROJECT OWNER SUNMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	
05.04.03.01.15.02 Top Slab 05.04.03.01.15.03 Walls		22,784 29,145	3,987 5,100	6,693 8,561	33,464 42,807	
TOTAL Conduit at Gatewell	1	76,145	13,325	22,368	111,839	
TOTAL Conduits	1.00 EA	277,510	48,564	81,519	407,593 407592.70	
05.04.03.02 Gatewell						
05.04.03.02.10 Gatewell						
05.04.03.02.10.01 Walls (I to Flow) 05.04.03.02.10.02 Walls (II to Flow) 05.04.03.02.10.03 Air Vent Castings		25,431 15,388 1,203	4,450 2,693 211	7,470	37,352 22,602 1,767	
TOTAL Gatewell	ı	42,023	7,354	12,344	61,721	
TOTAL Gatewell		42,023	7,354	12,344	61,721	
05.04.03.03 Intake						
05.04.03.03.01 Intake						
05.04.03.03.01.01 Base Slab	1.00 FA	61.517	10.765	120 81	35 0000 555 00	
		5,063	988	1,487	7,436 7435.77	
05.04.03.03.01.04 Headwall		26,064	583 4,561	7,656	4,895 4894.63 38,281 38281.49	
05.04.03.03.01.05 Backside Intake Double Wall 05.04.03.03.01.06 Transition To Conduit	1.00 EA	37,588	6,578	11,041		
		845	148	248		
05.04.03.03.01.08 Walls (II to Flow) 05.04.03.03.01.09 Divider Wall (II to Flow) 05.04.03.03.01.10 Center Columns	1.00 EA 1.00 EA 1.00 EA	37,339 8,797 3,109	6,534 1,539 544	10,968 2,584 913	54,842 54841.51 12,921 12920.74 4,566 4565.84	
TOTAL Intake	1.00 EA	192,420	33,674	56,523	282,617 282617.45	
TOTAL Intake	1.00 EA	192,420	33,674	56,523	282,617 282617.45	
05.04.03.04 Stilling Basin						
05.04.03.04.01 Stilling Basin Parabolic						
05.04.03.04.01.01 Walls 05.04.03.04.01.02 Base Slab 05.04.03.04.01.03 Shear Key	1.00 EA 1.00 EA 1.00 EA	31,414 14,271 1,425	5,497 2,497 249	9,228 4,192 419	46,139 46139.13 20,961 20960.70 2,093 2093.32	
	1.00 EA	11,624	2,034	3,414	17,072 17072.30	
TOTAL Stilling Basin Parabolic	1.00 EA	58,734	10,278	17,253	86,265 86265.45	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
05.04.03.04.02 Stilling Hydraulic Jump Basin						
05.04.03.04.02.01 Walls		40,426	7,074	11,875	59,375	59374.95
	1.00 EA	25,782	4,512	7,574	37,868	37867.59
		1,425	249	419	2,093	2093.32
_		624	109	183	917	916.56
	1.60 EA	670	117	197	984	984.36
		1,302	228	382	1,912	1911.83
05.04.03.04.02.08 Bridge Slab Sills	1.00 EA	9,347	1,736	2,913	14,566	14566.06 933.98
TOTAL Stilling Hydraulic Jump Basın	1.00 EA	80,782	14,137	23,730	118,649	118648.66
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
TOTAL Stilling Basin	1.00 EA	139,516	24,415	40,983	204,914	204914.11
TOTAL Concrete	1.00 EA	651,469	114,007	191,369	956,845	956845.00
05.04.04 Rip Rap	1 00 FA	41.625	7.284	10 001	61 137	61127 13
	1.00 EA	935,437	163,701	274,784	1,373,922	1373922
	1.00 EA	536,029	93,805	157,459		787293.18
05.04.15 Equipment Building	1 00 JB	61,536	10,769	18,076		90380.61
	1.00 EA	200,676	35,118	58,949	133,289	133289.01
TOTAL Gate S8	1.00 EA	2,528,751	442,531	742,821	3,714,103	3714103
TOTAL Main Outlet Structure	1.00 EA	4,945,778	865,511	1,452,822	7,264,112	7264112
06 Balancing Structure						
06.01 Gate S12						
06.01.03 Concrete						
06.01.03.01 Conduits						
06.01.03.01.10 Typical Conduit						
		92,163 7,165	16,128 1,254	27,073 2,105	135,364	
06.01.03.01.10.03 Top Slab 06.01.03.01.10.04 Walls		111,619 73,649	19,533 12,889	32,788 21,634	163,940 108,172	
TOTAL Typical Conduit		284,595	49,804	83,600	417,999	
06.01.03.01.15 Conduit at Gatewell						
06.01.03.01.15.01 Base Slab 06.01.03.01.15.02 Top Slab		35,122 32,320	6,146 5,656	10,317	51,585 47,470	

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Currency in DOLLARS

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
06.01.03.01.15.03 Walls		42,316	7,405	12,430	62,152	
TOTAL Conduit at Gatewell	ı	109,758	19,208	32,242	161,208	
TOTAL Conduits	1.00 EA	394,354	69,012	115,841	579,207	579206.75
06.01.03.02 Gatewell						
06.01.03.02.10 Gatewell						
06.01.03.02.10.01 Walls (I to Flow) 06.01.03.02.10.02 Walls (II to Flow) 06.01.03.02.10.03 Air Vent Castings		43,168 23,859 2,881	7,554 4,175 504	12,681 7,009 846	63,403 35,044 4,232	
TOTAL Gatewell	•	606'69	12,234	20,536	102,679	
TOTAL Gatewell	ı	606'69	12,234	20,536	102,679	
06.01.03.04 Stilling Basin 1						
06.01.03.04.01 Stilling Basin Parabolic						
06.01.03.04.01.01 Walls 06.01.03.04.01.02 Base Slab 06.01.03.04.01.03 Shear Key 06.01.03.04.01.04 Top Slab	1.00 EA 1.00 EA 1.00 EA 1.00 EA	25,534 20,623 1,855 23,478	4,469 3,609 325 4,109	7,501 6,058 545 6,897	37,503 30,289 2,725 34,483	37503.49 30289.34 2725.18 34482.70
TOTAL Stilling Basin Parabolic	1.00 EA	71,490	12,511	21,000	105,001	105,001 105000.70
06.01.03.04.02 Stilling Hydraulic Jump Basın						
		11,176 1,400 32,880	1,956 245 5,754	3,283 411 9,658	16,415 2,056 48,292	16415.35 2055.99 48292.16
06.01.03.04.02.04 End Wall & Toe Support 06.01.03.04.02.05 Chute Blocks 06.01.03.04.02.06 Baffle Blocks	1.00 EA 1.00 EA 1.00 EA	12,770 332 967	2,235 58 169	3,751 98 284	18,755 488 1,421	18755.39 487.77 1420.85
TOTAL Stilling Hydraulic Jump Basin	1.00 EA	59,525	10,417	17,486	87,428	87427.52
TOTAL Stilling Basin 1	1.00 EA	131,015	22,928	38,486	192,428	192,428 192428.23
06.01.03.05 Stilling Basin 2						
06.01.03.05.01 Stilling Basın Parabolic						
06.01.03.05.01.01 Walls	1.00 EA	25,534	4,469	7,501	37,503	37503.49

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
06.01.03.05.01.02 Base Slab 06.01.03.05.01.03 Shear Key 06.01.03.05.01.04 Top Slab	1.00 EA 1.00 EA	20,623 1,855 23,478	3,609 325 4,109	6,058 545 6,897	30,289 2,725 34,483	30289.34 2725.18 34482.70
TOTAL Stilling Basin Parabolic	1.00 EA	71,490	12,511	21,000	105,001	105,001 105000.70
06.01.03.05.02 Stilling Hydraulic Jump Basın						
		11,176	1,956	3,283	16,415	
06.01.03.03.02.03 Base Slab 06.01.03.05.02.04 End Wall & Toe Support 06.01.03.05.02.05 Chute Blocks 06.01.03.05.02.06 Baffle Blocks	1.00 EA 1.00 EA 1.00 EA 1.00 EA	32,880 12,770 332 967	5,754 2,235 58 169	9,658 3,751 98 284	48,292 18,755 488 1,421	48292.16 18755.39 487.77
TOTAL Stilling Hydraulic Jump Basın	1.00 EA	59,525	10,417	17,486	87,428	87427.52
TOTAL Stilling Basin 2	1.00 EA	131,015	22,928	38,486	192,428	192428.23
TOTAL Concrete	1.00 EA	726,292	127,101	213,348	1,066,742	1066742
		262,328 444,201 61,536	45,907 77,735 10,769	77,059 130,484 18,076	385,294 652,421 90,381	385294.22 652420.92 90380.61
06.01.90 Miscellaneous 06.01.95 Controls	1.00 EA 1.00 EA	82,655 200,676	14,465 35,118	24,280 58,949	121,400 294,743	121399.97 294742.52
TOTAL Gate S12	1.00 EA	1,777,689	311,096	522,196	2,610,980	2610980
TOTAL Balancing Structure	1.00 EA	1,777,689	311,096	522,196	2,610,980	2610980
07 Perimeter Canal Structures						
07.01 Gate S3						
07.01.01 Excavation 07.01.02 Sheet Piling	1.00 JB 1.00 EA	2,762 135,881	483 23,779	811 39,915	4,057 199,575	4,057 4057.00 199,575 199575.21
07.01.03 Concrete.						
07.01.03.01 Slab On Grade						
07.01.03.01.01 Bottom Slab At Culvert 07.01.03.01.02 Roadway Approach Slab 07.01.03.01.03 Apron Slab	1.00 EA 1.00 EA 1.00 EA	13,061 3,526 30,328	2,286 617 5,307	3,837 1,036 8,909	19,183 5,179 44,544	19183.16 5178.60 44543.96
TOTAL Slab On Grade	1.00 EA	46,915	8,210	13,781	906'89	68905.72

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,		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
	07.01.03.02 Walls				 		
	07.01.03.02.01 Abutment Upstream	1.00 EA	176,604	30,906	51,877	259,387	259386.83
		1.00 EA	21,300	3,727	6,257	31,284	
		1.00 EA	5,876	1,028	1,726	8,630	
	07.01.03.02.04 Exterior Walls	1.00 EA	10,142	1,775	2,979	14,896	-
	07.01.03.02.06 Head Wall	1.00 EA	9,687	1,116	1,874	9,371	9370.59 14228.19
	C CLD TKTOT						
	TOTAL WALLS	1.00 EA	229,988	40,248	67,559	337,795	337,795 337795.48
	07.01.03.03 Sill						
	07.01.03.03.01 End Sill 07.01.03.03.02 For Dewatering Needles	1.00 EA 1.00 EA	599	105 68	176 115	880 574	879.97
	TOTAL Sill	1.00 EA	066	173	291	1,454	1453.53
	07.01.03.04 Baffles						
	07.01.03.04.01 Baffles	1.00 EA	852	149	250	1,252	1251.75
	TOTAL Baffles	4 OO L	85.2	100			
	000000000000000000000000000000000000000	1.00 EA	700	Λ ,	720	1,252	1251.75
	07.01.03.07 Elevated Slabs						
	07.01.03.07.01 Top Slab At Culvert 07.01.03.07.02 Roadway 07.01.03.07.03 Operating Platform	1.00 EA 1.00 EA 1.00 EA	15,937 2,713 804	2,789 475 141	4,682 797 236	23,408 3,984	23408.08 3984.15 1181.58
	CACCO ECATION OF TRADE						
	ioian bievaled siabs	1.00 EA	19,455	3,405	5,715	28,574	28573.81
	07.01.03.08 Breast Wall						
	07.01.03.08.01 Breast Wall	1.00 EA	2,117	371	622	3,110	3109.57
	TOTAL Breast Wall	1.00 EA	2,117	371	622	3,110	3109.57
	07.01.03.09 Pile Cap						
	07.01.03.09.01 Pile Cap	1.00 EA	4,849	849	1,424	7,122	7122.25
	TOTAL Pile Cap	1.00 EA	4,849	849	1,424	7,122	7122.25
	07.01.03.10 Seal Concrete						

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	QUANTY UOM	MOD J	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
07.01.03.10.01 Seal Concrete	1.00) EA	56,056	9,810	16,466	82,332	82332.04
TOTAL Seal Concrete	1.00	EA -	56,056	9,810	16,466	82,332	82332.04
TOTAL Concrete	1.00	EA	361,222	63,214	106,109	530,544	530,544 530544.14
07.01.04 Erosion Control System 07.01.05 Gates 07.01.06 Rip Rap 07.01.11 Electrical 07.01.15 Equipment Building 07.01.95 Controls	1.00 1.00 1.00 1.00 1.00	J EA EA EA EA U JB	19,509 170,842 17,762 356,764 61,536 386,585	3,414 29,897 3,108 62,434 10,769 67,652	5,731. 50,185 5,217 104,799 18,076 113,559	28,653 250,924 26,087 523,997 90,381	28653.36 250923.87 26087.43 523996.89 90380.61 567796.23
TOTAL Gate S3	1.00	EA	1,512,861	264,751	444,403	2,222,015	2222015
07.02 Gate 510							
07.02.01 Excavation 07.02.02 Sheet Piling	1.00	JB EA	4,505 212,839	788	1,323	6,616	6,616 6616.12 312,607 312606.58
07.02.03 Concrete							
07.02.03.01 Slab On Grade							
07.02.03.01.01 Bridge Approach Slab 07.02.03.01.02 Ladder Platform 07.02.03.01.03 Apron Slab	1.00	EA EA	3,526 3,755 173,290	617 657 30,326	1,036 1,103 50,904	5,179 5,516 254,519	5178.60 5515.78 254519.18
TOTAL Slab On Grade	1.00	EA	180,571	31,600	53,043	265,214	265,214 265213.57
07.02.03.02 Walls							
07.02.03.02.01 Abutment 07.02.03.02.02 Pier	1.00	EA	74,378	13,016	21,849 22,319	109,243	109,243 109242.63 111,594 111593.93
TOTAL Walls	1.00	EA	150,357	26,312	44,167	220,837	220,837 220836.56
07.02.03.03 Columns							
07.02.03.03.01 Abutments 07.02.03.03.02 Piers	1.00	EA	9,128	1,597	2,681	13,407	13407.13
TOTAL Columns	1.00	EA	19,268	3,372	5,660	28,300	28300.27
07.02.03.04 Weir							

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707.02.03.04.01 Under Roller Gate TOTAL Weir 07.02.03.05 Sill 07.02.03.06 Baffles 07.02.03.06.01 Baffles 07.02.03.07 Elevated Slabs 07.02.03.07 Elevated Slabs 07.02.03.07 Coperating Platform TOTAL Elevated Slabs 07.02.03.08 Breast Wall 07.02.03.08 Preast Wall 07.02.03.09 Pile Cap 107.02.03.09 Pile Cap 107.02.03.09 Orle Cap	1.00 EA 1.00 E	6,634 6,634 6,634 3,160 3,160 3,712 3,712	1,161 1,161 1,161 1,161 650 650	1,949 1,949 928 928 1,090	9,744	9744.14 9744.14 4641.43
	1.00 EA 1.00 E	6,634 6,634 3,160 3,712 3,712 3,712	553 553 650 650	1,949	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9744.16
	1.00 EA _ 1.00 E	3,712	553 6 650 6 650	928 928 1,090 1,090	4,641	4641.43
	1.00 EA - 1.00 E	3,712	6 6 5 5 3 5 3 6 5 6 6 6 6 6 6 6 6 6 6 6	928	4,641	4641.4
	1.00 EA 1.00 E	3,160	656 650	1,090	4,641	4641.4
	1.00 EA -	3,712 3,712	650	1,090	5,452	
	1.00 EA -	3,712	650	1,090	5,452	
	1,00 EA	3,712	650	1,090		5451.95
	1.00 F.	24,488	4,285		5,452	5451.95
	AR 00.1	24,488	4,285			
TOTAL Elevated Slabs 07.02.03.08 Breast Wall 07.02.03.08.01 Breast Wall TOTAL Breast Wall 07.02.03.09 Pile Cap 07.02.03.09.01 File Cap	1.00 EA	11,971	2,095	7,193	35,966 17,582	35966.36 17581.90
07.02.03.08 Breast Wall 07.02.03.08.01 Breast Wall TOTAL Breast Wall 07.02.03.09 File Cap 07.02.03.09.01 File Cap	1.00 EA	36,458	6,380	10,710	53,548	53548.27
07.02.03.08.01 Breast Wall TOTAL Breast Wall 07.02.03.09 Pile Cap 07.02.03.09.01 Pile Cap						
TOTAL Breast Wall 07.02.03.09 File Cap 07.02.03.09.01 File Cap	1.00 EA	2,561	448	752	3,761	3761.29
07.02.03.09 Pile Cap 07.02.03.09.01 Pile Cap TOTAL Pile Cap	1.00 EA	2,561	448	752	3,761	3761.29
07.02.03.09.01 File Cap TOTAL File Cap						
	1.00 EA	7,266	1,272	2,135	10,673	10672.56
	1.00 EA	7,266	1,272	2,135	10,673	10672.56
or.os.os.to seat concrete						
07.02.03.10.01 Seal Concrete	1.00 EA	91,454	16,004	26,865	134,323 134323.47	34323.47
TOTAL Seal Concrete	1.00 EA	91,454	16,004	26,865	134,323 1	134323.47
TOTAL Concrete	1.00 EA	501,442	87,752	147,299	736,493 7	736493.50
07.02.04 Erosion Control System 07.02.05 Gates	1.00 JB 1.00 EA	23,413	4,097	6,877 103,546	34,387	34387.39

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		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	JNIT COST
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************			*			
	07.02.06 Rip Rap		27.858	4.875	8 183	40 917	7936
		1.00 EA	374,950	65,616	110,142	550,708	550707.83
		1,00 JB	61,536	10,769	18,076		90380.61
		1.00 EA	136,230	23,840	40,018		200087.62
	TOTAL Gate S10	1.00 EA	1,695,270	296,672	497,986	2,489,928	2489928
						•	
	07.03 Gate S11						
	07.03.01 Excavation 07.03.02 Sheet Piling	1.00 JB 1.00 EA	6,679	1,169	1,962	9,810	9,810 9809.57 661,157 661157.32
	07.03.03 Concrete						
	07.03.03.01 Slab On Grade						
	07.03.03.01.01 Bridge Approach Slab 07.03.03.01.02 Ladder Platform 07.03.03.01.03 Apron Slab	1.00 EA 1.00 EA 1.00 EA	3,526 3,755 273,724	617 657 47,902	1,036 1,103 80,406	5,179 5,516 402,032	5178.60 5515.78 402031.83
	TOTAL Stab On Grade	1.00 EA	281.005	40 176	82 545	307 014	412 726 412736 23
				2116		07/1711	77.07.71
	07.03.03.02 Walls						
	07.03.03.02.01 Abutment 07.03.03.02.02 Pier	1.00 EA	122,414 136,654	21,422	35,959 40,142	179,795	179,795 179795.21 200,711 200711.04
	TOTAL Walls	1.00 EA	259,068	45,337	76,101	380,506	380506.24
	07.03.03.03 Columns						
	07.03.03.03.01 Abutments 07.03.03.03.02 Piers	1.00 EA 1.00 EA	9,128 14,165	1,597	2,681 4,161	13,407	13407.13
	TOTAL Columns	1.00 EA	23,294	4,076	6,843	34,213	34212.65
	07.03.03.04 Weir						
	07.03.03.04.01 Under Roller Gate	1.00 EA	52,489	9,186	15,419	77,093	77093.34
	TOTAL Weir	1.00 EA	52,489	9,186	15,419	77,093	77093.34
	07.03.03.05 \$111						
	07.03.03.05.01 Under Weir Gate	1.00 EA	9,183	1,607	2,698	13,488	13487.82
		•					

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TOTAL SILL 1.00 EA 9,183 1,607 2,698 13,488 19487.62 10.00 EA 1.00 E			QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
0.01 Service Etiges Siabs 0.02 Operating Platform 1.00 EA 67,083 11,739 19,706 98,528 0.02 Operating Platform 1.00 EA 67,083 11,739 19,706 98,528 0.03 DFILE Cap 1.00 EA 7,266 1,277 395 663 3,314 0.09 Pile Cap 1.00 EA 7,266 1,277 2,135 10,673 1.01 Seal Concrete 1.00 EA 7,266 1,272 2,135 10,673 1.01 Seal Concrete 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 39,855 199,276 170 EL Carterol 1.00 EA 135,677 2,374 11,278 5,90,31 11,20 EL Carterol 1.00 EA 2,569,566 974,674 1,659,060 8,180,300 EL Carterol 1.00 EA 5,569,566 974,674 1,659,060 8,180,300 EL Carterol 1.00 EA 5,569,566 974,674 1,650,060 8,180,300 EL CARTEROL ETILING 1.00 EA 7,569 1,324 2,324 11,115 Sheet Filling 1.00 EA 7,569 1,324 2,324 11,115		TOTAL SILI	1.00 EA	9,183	1,607	2,698	13,488	13487.82
0.00 Decarting Platform 1.00 EA 16,480 2,885 4,841 24,266 1.00 EA 10.00 EA 16,480 2,884 4,841 24,266 1.00 EA 10.00 EA 11,739 11,739 11,739 13,734 24,266 1.00 EA 10.00 EA 10.0	07.03.03	7						
TOTAL Elevated Slabs 1.00 EA 67,083 11,739 19,706 98,528 19,506 19,506 19,506 19,506 19,506 19,506 19,506 19,506 19,706 19,506 19,506 19,706 19,506 19,506 19,706 19,506 19,706 19,506 19,706 19,506 19,706 19,506 19,706 19,506 19,7	07.03.03 07.03.03			50,602 16,480	8,855	14,864	74,322	74321.93 24205.57
08 Breast Wall 100 EA 2,257 101 Breast Wall 100 EA 2,257 102 EA 2,257 103 EA 2,257 104 EA 2,257 105 EA 2,257 105 EA 2,257 105 EA 2,257 105 EA 2,257 106 EA 2,257 107 EA 2,257 10 EA 2,223 11,115 11,115 11,115 11,115		TOTAL Elevated Slabs		67,083	11,739	19,706	98,528	98527.51
100 EA 2,257 395 663 3,314 100 EA 2,257 395 693 10,673 10,673 100 EA 1,276 1,272 2,135 10,673 10,6	07.03.03							
TOTAL Breast Wall 1.00 EA 2,257 395 663 3,314 99 Pile Cap 1.00 EA 7,266 1,272 2,135 10,673 1	07.03.03	8.01	1.00 EA	2,257	395	663	3,314	3314.40
09 Pile Cap 1.00 EA 7,266 1,272 2,135 10,673 1.00 EA 7,266 1,272 2,135 10,673 1.00 EA 135,677 23,744 39,855 199,276 10.01 EA 135,677 23,744 24,804 7,804 7,804 10.01 EA 13,001 10.01 EA 13,001 10.01 EA 13,001 10.01 10.01 EA 13,001 10.01		TOTAL Breast Wall		2,257	395	663	3,314	3314.40
1.00 EA 7,266 1,272 2,135 10,673 1.00 EA 7,266 1,272 2,135 10,673 1.00 EA 7,266 1,272 2,135 10,673 1.00 EA 135,677 23,744 39,855 199,276 1.01 Seal Concrete 1.00 EA 135,677 23,744 39,855 199,276 1.01 Seal Concrete 1.00 EA 135,677 23,744 39,855 199,276 1.01 Seal Concrete 1.00 EA 135,677 23,744 39,855 199,276 1.01 Seal Concrete 1.00 EA 135,677 23,744 39,855 199,276 1.02 EA 135,677 23,744 39,855 199,276 1.03 EA 16,531 245,963 1,229,817 1.04 Seal Concrete 1.00 EA 384,236 67,241 11,569 564,347 1.04 Seal Concrete 1.00 EA 2,361,435 10,769 18,076 90,439 1.03 EA 1,536 10,769 18,076 18,076 19,060 1.04 EA 1,536 10,769 1,224 1,636,060 8,180,300 1.04 EA 1,324 1,324 1,324 2,223 11,115 1.05 EA 1,324 2,223 11,115 1.06 EA 1,324 2,223 11,115 1.07 EA 1,324 2,223 11,115 1.08 EA 1,324 1,324 2,223 11,115 1.09 EA 1,324 1,324 1,324 1,324 1,324 1,325 1.09 EA 1,324 1,324 1,324 1,324 1,324 1,324 1.09 EA 1,324 1,324 1,324 1,324 1,324 1,324 1,325 1.09 EA 1,324 1,324 1,325 1.00 EA 1,324 1,324 1,324 1,325 1.00 EA 1,324 1,324 1,324 1,325 1.00 EA 1,324 1,324 1,325 1.00 EA 1,324 1,324 1,324 1,325 1.00 EA 1,324 1,324 1,325 1.00 EA 1,324 1,324 1,325 1.00 EA 1,324 1,325 1.00 EA 1,324 1,325 1.00 EA 1,324 1,324 1.00 EA 1,324 1,325 1.00 EA 1,324 1.00 EA	07.03.03	6						
TOTAL File Cap 1.00 EA 7,266 1,272 2,135 10,673 10.01 Seal Concrete 10.01 Seal Concrete 10.00 EA 135,677 23,744 39,855 199,276 1 10.01 Seal Concrete 10.00 EA 135,677 23,744 39,855 199,276 1 10.01 EA 135,677 23,744 39,855 199,276 1 10.02 EA 135,677 23,744 39,855 199,276 1 10.03 E 30,486 5,335 8,955 14,029,817 12,289,817 12,289,817 12,289,817 12,289,817 12,889 12,222 14,000 12,000 EA 18,016 10,769 18,076 11,000 EA 18,016 10,769 18,076 10,769 18,076 11,000 EA 18,016 10,769 18,076 11,000 EA 18,016 11,016 EA 2,361,435 11,115 11,115 11,115 11,115 11,115	07.03.03	3.09.01 Pile Cap		7,266	1,272	2,135	10,673	10672.56
10.01 Seal Concrete 10.01 Seal Concrete 10.00 EA 135,677 23,744 39,855 199,276 1 10.01 Seal Concrete 10.02 EA 135,677 23,744 39,855 199,276 1 10.02 EA 837,322 146,531 245,963 1,229,817 10.03 Exosion Control System 1.00 EA 84,804 67,241 12,869 54,777 10.00 EA 44,804 67,241 12,869 54,805 10.00 EA 44,804 67,241 12,869 54,805 10.00 EA 44,804 67,241 12,869 56,805 10.00 EA 2,81,435 10,769 18,076 90,381 10.00 EA 2,361,435 413,251 693,672 3,468,358 10.00 EA 5,559,566 974,674 1,636,060 8,180,300 10.00 EA 5,559,566 974,674 1,636,060 8,180,300 10.00 EA 5,569,566 974,674 1,636,060 8,180,300 10.00 EA 7,569 11,324 2,223 11,115		TOTAL Pile Cap		7,266	1,272	2,135	10,673	10672.56
1.00 EA 135,677 23,744 39,855 199,276 190,27	07.03.03	0						
TOTAL Seal Concrete 1.00 EA 135,677 23,744 39,855 199,276 1 TOTAL Concrete 1.00 EA 837,322 146,531 245,963 1,229,817 23.00 EA 837,322 146,531 245,963 1,229,817 1.00 EA 84,804 7,841 13,667 15,202 761,660 7,841 13,667 10.00 EA 344,804 7,841 13,667 13,667 10.00 EA 344,804 7,841 13,697 864,347 801 10.00 EA 344,236 67,241 112,869 564,347 801 10.00 EA 28,054 4,910 8,241 41,205 10.00 EA 2,361,435 10.769 18,076 90,381 10.00 EA 2,361,435 413,251 693,672 3,468,358 1.00 EA 5,569,566 974,674 1,636,060 8,180,300 1.00 EA 5,569,566 974,674 1,636,060 8,180,300 1.00 EA 7,568 1,324 2,223 11,115	07.03.03	3.10.01 Seal Concrete	1.00 EA	135,677	23,744	39,855	199,276	199275.93
TOTAL Concrete 1.00 EA 837,322 146,531 245,963 1,229,817		TOTAL Seal Concrete		135,677	23,744	39,855	199,276	199275.93
Erosion Control System 1.00 JB 30,486 5,335 8,955 44,777 Gates Rip Rap		TOTAL Concrete		837,322	146,531	245,963	1,229,817	1229817
1.00 EA 44,804 7,841 13,161 65,805 65,241 12,869 564,347 12,869 564,347 12,869 564,347 12,869 564,347 12,869 564,347 1.00 EA 28,054 4,910 8,241 41,205 69,881 1.00 EA 2,361,435 413,251 693,672 3,468,358 1.00 EA 5,569,566 974,674 1,636,060 8,180,300 1.00 EA 7,568 1,324 2,223 11,115	07.03.04			30,486	5,335	8,955	44,777	-
Equipment Building 1.00 EA 2,8164 4,910 8,241 41,205 10.00 EA 2,361,435 413,251 693,672 3,468,358 10.00 EA 2,361,435 413,251 693,672 3,468,358 10.00 EA 5,569,566 974,674 1,636,060 8,180,300 t.e CSI Creet Spillway 1.00 EA 7,568 1,324 2,223 11,115	07.03.06			44,804	7,841	13,161	65,805	•
TOTAL Gate S11 TOTAL Gate S11 TOTAL Gate S11 TOTAL Perimeter Canal Structures 1.00 EA 5,569,566 974,674 1,636,060 8,180,300 ssted Spillway Gate CS1 Crest Spillway 1.00 EA 7,568 1,324 2,223 11,115	07.03.15			61,536 28,054	10,769	18,076 8,241	90,381	
TOTAL Perimeter Canal Structures 1.00 EA 5,569,566 974,674 1,636,060 8,180,300 ssted Spillway Gate CSI Crest Spillway 1.00 EA 7,568 1,324 2,223 11,115		TOTAL Gate S11		2,361,435	413,251	693,672	3,468,358	3468358
Gate CS1 Crest Spillway 1.00 EA 7,568 1,324 2,223 11,115		TOTAL Perimeter Canal Structures	1.00 EA	5,569,566	974,674	1,636,060	8,180,300	8180300
Gate CS1 Crest Spillway 2,223 11,115 1.00 EA 7,568 1,324 2,223 11,115	08 Cre	ਰ						
Sheet Piling 1.00 EA 7,568 1,324 2,223 11,115	08.01	Sate CS1 Crest Spillway						
	08.01.03		1.00 EA	7,568	1,324	2,223		11114.90

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
TOTAL Sheet Piling	1.00 EA	7,568	1,324	2,223	11,115	11,115 11114.90
08.01.03 Concrete						
08.01.03.01 Conduits						
08.01.03.01.10 Boxed Conduit						
08.01.03.01.10.01 Conduit Base Slab 08.01.03.01.10.02 Top Slab 08.01.03.01.10.03 Walls	1.00 EA 1.00 EA 1.00 EA	15,922 17,578 16,359	2,786 3,076 2,863	4,677 5,163 4,806	23,385 25,817 24,028	23385.48 25817.31 24027.88
TOTAL Boxed Conduit	1.00 EA	49,859	8,725	14,646	73,231	73230.67
.08.01.03.01.15 U-Shaped Conduit						
08.01.03.01.15.01 Base Slab 08.01.03.01.15.02 Walls	1.00 EA 1.00 EA	17,517	3,065	5,146	25,728 26,498	25728.09
TOTAL U-Shaped Conduit	1.00 EA	35,558	6,223	10,445	52,226	52225.98
TOTAL Conduits	1.00 EA	85,417	14,948	25,091	125,457	125,457 125456.65
08.01.03.02 Weir Inlet						
08.01.03.02.01 Weir Inlet						
08.01.03.02.01.01 Base Slab 08.01.03.02.01.02 Weir 08.01.03.02.01.03 Transition To Conduit	1.00 EA 1.00 EA 1.00 EA	28,244 19,596 3,959	4,943 3,429 693	8,297 5,756 1,163	41;484 28,781 5,815	41483.71 28781.25 5814.70
TOTAL Weir Inlet	1.00 EA	51,799	6,065	15,216	76,080	76079.66
TOTAL Weir Inlet	1.00 EA	51,799	6,065	15,216	76,080	76079.66
08.01.03.04 Stilling Basın						
08.01.03.04.01 Stilling Basin Parabolic						
08.01.03.04.01.01 Walls 08.01.03.04.01.02 Base Slab 08.01.03.04.01.03 Top Slab	1.00 EA 1.00 EA 1.00 EA	46,708 23,024 9,984	8,174 4,029 1,747	13,720 6,763 2,933	68,602 33,816 14,664	68601.96 33816.08 14664.02
TOTAL Stilling Basın Parabolic	1.00 EA	79,715	13,950	23,416	117,082	117,082 117082.06

08.01.03.04.02 Stilling Hydraulic Jump Basin

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Currency in DOLLARS

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
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		QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
i ! !	**************************************						
	08.01.03.04.02.01 Walls		68.845	12.048	20.223	101 116	101116 31
	08.01.03.04.02.02 Base Slab		27,128	4.747	7,969	39,844	39844.44
			712	125	209	1,046	1045.93
	_		147	26	43	217	216.62
	08.01.03.04.02.05 End Sill		365	64	107	536	535.77
-		1.00 EA	4,518	161	1,327	6,636	6636.33
	08.01.03.04.02.07 Top Slab		3,517	616	1,033	5,166	5166.11
	TOTAL Stilling Hydraulic Jump Basin	1.00 EA	105,233	18,416	30,912	154,562	154,562 154561.51
	TOTAL Stilling Basin	1.00 EA	184,949	32,366	54,329	271,644	271,644 271643.57
	TOTAL Concrete	1.00 EA	322,165	56,379	94,636	473,180	473,180 473179.88
	08.01.06 Rip Rap 08.01.90 Miscellaneous	1.00 EA 1.00 EA	50,976	8,921 2,009	14,974	74,871	74870.69 16859.12
	TOTAL Gate CS1 Crest Spillway	1.00 EA	392,187	68,633	115,205	576,025	576,025 576024.59
	08.02 Gate CS2 Crest Spillway						
	08.02.02 Sheet Piling	1.00 EA	7,568	1,324	2,223	11,115	11114.90
	TOTAL Sheet Piling	1.00 EA	7,568	1,324	2,223	11,115	11114.90
	08.02.03 Concrete						
	08.02.03.01 Conduits						
	08.02.03.01.10 Boxed Condust						
	08.02.03.01.10.01 Conduit Base Slab		15,859	2,775	4,659	23,293	23293.06
	08.02.03.01.16.02 Top Slab 08.02.03.01.10.03 Walls	1.00 EA 1.00 EA	17,515	3,065	5,145	25,725	25724.90 23962.97
	TOTAL Boxed Conduit	1,00 EA	49,689	969'8	14,596	72,981	72980.93
	08.02.03.01.15 U-Shaped Conduit						
	08.02.03.01.15.01 Base Slab 08.02.03.01.15.02 Walls	1.00 EA 1.00 EA	11,260	1,971 2,039	3,308	16,539 17,114	16538.85 17114.27
	TOTAL U-Shaped Conduit	1.00 EA	22,913	4,010	6,731	33,653	33653.12
	TOTAL Conduits	1.00 EA	72,602	12,705	21,327	106,634	106,634 106634.05

08.02.03.02 Weir Inset

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

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SUMMARY PAGE

** PROJECT OWNER SUMMARY - Assembly **

41483.71 28781.25 5814.70 48338.00 57533.99 39654.29 20589.43 1024.29 216.62 705.61 514.14 6405.29 76079.66 139,755 139754.63 982,065 982065.30 76079.66 70644.95 69109.68 322,468 322468.33 406,041 406040.71 TOTAL COST UNIT COST 48,338 57,534 14,923 76,080 41,484 28,781 5,815 39,654 20,589 1,024 217 706 514 6,405 76,080 70,645 69,110 43 141 103 1,281 CONTINGN 15,216 11,507 2,985 8,297 5,756 1,163 9,668 196,413 15,216 14,129 27,951 64,494 81,208 13,822 9,065 8,417 8,234 6,855 4,943 3,429 693 9,065 5,759 4,725 2,453 122 122 26 84 61 763 16,652 38,422 117,012 ESCALATN 48,379 26,999 14,018 697 147 480 350 4,361 51,799 51,799 32,911 15,188 47,053 39,172 10,161 28,244 19,596 3,959 95,152 668,640 48,099 219,553 276,453 CONTRACT 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA QUANTY UOM 1.00 EA TOTAL Stilling Hydraulic Jump Basin 08.02.03.04.02 Stilling Hydraulic Jump Basin TOTAL Stilling Basin Parabolic TOTAL Gate CS2 Crest Spillway 08.02.03.02.01.01 Base Slab 08.02.03.02.01.02 Weir 08.02.03.02.01.03 Transition To Conduit 08.02.03.04.01 Stilling Basin Parabolic TOTAL Crested Spillway Walls
Base Slab
Shear Key
Chute Blocks
Baffle Blocks TOTAL Stilling Basin 08.02.03.04.02.01 Walls
08.02.03.04.02.02 Base Slab
08.02.03.04.02.03 Shear Key
08.02.03.04.02.04 Chute Blocks
08.02.03.04.02.05 Baffle Blocks
08.02.03.04.02.06 End Sill
08.02.03.04.02.07 Bridge Slab TOTAL Weir Inlet TOTAL Weir Inlet 08.02.03.04.01.01 Walls 08.02.03.04.01.02 Base Slab 08.02.03.04 Stilling Basin TOTAL Concrete 08.02.03.02.01 Weir Inlet Rip Rap Miscellaneous 09.01.03 Concrete 09 Gated Culvert 09.01 Gate S7 08.02.06 1 08.02.90 1

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
09.01.03.01 Slab O	Slab On Grade	† 	1	1]	
09.01.03.01.01 Bas	Base Slab	1.00 EA	72,446	12,678	21,281	106,405	106,405 106405.32
TOTAL	TOTAL Slab On Grade	1.00 EA	72,446	12,678	21,281	106,405	106,405 106405.32
09.01.03.03 Walls		1.00 EA	108,690	19,021	31,928	159,639	159,639 159638.82
09.01.03.07 Elevat	Elevated Slabs						
09.01.03.07.01 Elevated Slab	evated Slab	1.00 EA	65,174	11,405	19,145	95,724	95724.29
TOTAL	TOTAL Elevated Slabs	1.00 EA	65,174	11,405	19,145	95,724	95724.29
09.01.03.08 Beams							
09.01.03.08.01 Nee	Needle Beams	1.00 EA	2,259	395	664	3,318	3317.67
TOTAL Beams	Beams	1.00 EA	2,259	395	664	3,318	3317.67
TOTAL	TOTAL Concrete	1.00 EA	248,569	43,500	73,017	365,086	365086.10
	Erosion Control System	1.00 JB	107,119	18,746	31,466	157,331	157331.28
09.01.05 Gates		1.00 EA	170,842	29,897	50,185	250,924	250923.87
09.01.07 Rip Rap	10	1.00 EA	76,109	13,319	13.751	111,785	111785.15
	a.t.	1.00 EA	356,764	62,434	104,799	523,997	523996.89
09.01.15 Equipment 09.01.95 Controls	Equipment Building Controls	1.00 JB 1.00 EA	61,536 257,693	10,769 45,096	18,076	90,381	90380.61 378486.42
TOTAL	TOTAL Gate S7	1.00 EA	1,325,443	231,952	389,349	1,946,744	1946744
09.02 Gate S9.							
09.02.03 Concrete							
09.02.03.01 Slab O	Slab On Grade						
09.02.03.01.01 Bas	Base Slab	1.00 EA	30,191	5,283	8,869	44,343	44342.52
TOTAL	TOTAL Slab On Grade	1.00 EA	30,191	5,283	8,869	44,343	44342.52
09.02.03.03 Walls		1.00 EA	43,054	7,535	12,647	63,236	63236.27
09.02.03.07 Elevat	Elevated Slabs						
09.02.03.07.01 Elevated Slab	evated Slab	1.00 EA	17,095	2,992	5,022	25,108	25108.34
TOTAL	TOTAL Elevated Slabs	1.00 EA	17,095	2,992	5,022	25,108	25108.34

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

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09.02.03.08							
	.08 Beams						
09.02.03	09.02.03.08.01 Needle Beams	1.00 EA	1,634	286	480	2,399	2399.29
	TOTAL Beams	1.00 EA	1,634	286	480	2,399	2399.29
	TOTAL Concrete	1.00 EA	91,974	16,095	27,017	135,086	135,086 135086.43
09.02.04	Erosion Control System		27,310	4,779	8,022	40,111	40111.27
09.02.05			62,485	10,935	18,355	91,775	
09.02.06			30,987	5,423	9,103	45,513	
09.02.07	Kip kap Electrical		356,764	4,345	104.799	36,464	36464.40
09.02.15		1.00 JB 1.00 EA	61,536 181,530	10,769	18,076 53,324	90,381	90380.61 266621.53
	TOTAL Gate S9	1.00 EA	837,412	146,547	245,990	1,229,948	1229948
09.03 G	Gate S14						
09.03.03	09.03.03 Concrete						
09.03.03.01	.01 Slab On Grade						
09.03.03	09.03.03.01.01 Base Slab	1.00 EA	24,258	4,245	7,126	35,628	35628.27
	TOTAL Slab On Grade	1.00 EA	24,258	4,245	7,126	35,628	35628.27
09.03.03.03	.03 Walls	1.00 EA	43,019	7,528	12,637	63,184	63183.71
09.03.03.07	.07 Elevated Slabs						
09.03.03	09.03.03.07.01 Elevated Slab	1.00 EA	8,565	1,499	2,516	12,580	12580.09
	TOTAL Elevated Slabs	1.00 EA	8,565	1,499	2,516	12,580	12580.09
09.03.03.08	.08 Beams						
09.03.03	09.03.03.08.01 Needle Beams	1.00 EA	1,172	205	344	1,721	1720.64
	TOTAL Beams	1.00 EA	1,172	205	344	1,721	1720.64
	TOTAL Concrete	1.00 EA	77,013	13,477	22,623	113,113	113,113 113112.72
09.03.04 09.03.05 09.03.06	Erosion Control System Gates Stop Logs	1.00 JB 1.00 EA 1.00 EA	12,603 73,386 38,055	2,205 12,843 6,660	3,702	18,510 107,786 55,893	18,510 18510.10 107,786 107786.26 55,893 55892.58
09.03.11			343,176	9,063	100,808	504,039	u)

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
09.03.15 Equipment Building 09.03.95 Controls	1.00 JB 1.00 EA	61,536 351,432	10,769	18,076 103,233	90,381 516,166	90,381 90380.61 516,166 516166.28
TOTAL Gate S14	1.00 EA	986,143	172,575	289,679	1,448,397	1448397
09.04 Gate S15						
09.04.03 Concrete						
09.04.03.01 Slab On Grade						
09.04.03.01.01 Base Slab	1.00 EA	39,070	6,837	11,477	57,384	57384.46
TOTAL Slab On Grade	1.00 EA	39,070	6,837	11,477	57,384	57384.46
09.04.03.03 Walls	1.00 EA	48,568	8,499	14,267	71,335	71334.98
09.04.03.07 Elevated Slabs						
09.04.03.07.01 Elevated Slab	1.60 EA	19,023	3,329	5,588	27,939	27939.42
TOTAL Elevated Slabs	1.00 EA	19,023	3,329	5,588	27,939	27939.42
09.04.03.08 Beams						
09.04.03.08.01 Needle Beams	1.00 EA	2,352	412	691	3,455	3454.75
TOTAL Beams	1.00 EA	2,352	412	169	3,455	3454.75
TOTAL Concrete	1.00 EA	109,014	19,077	32,023	160,114	160113.61
	1.00 JB	29,477	5,158	8,659	43,294	
09.04.05 Gates	1.00 EA	143,081	25,039	42,030	210,150	
	1.00 EA	69,926	12,273	20,541	103,002	102704.46
09.04.11 Electrical		356,764	62,434	104,799	523,997	523996.89
	1.00 EA	386,585	10,769	113,559	90,381 567,796	90380.61 567796.23
TOTAL Gate \$15	1.00 EA	1,226,511	214,639	360,288	1,801,438	1801438
09.05 Gate S16		÷				
09.05.03 Concrete						
09.05.03.01 Slab On Grade						

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

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** PROJECT OWNER SUMMARY - Assembly **

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00.05.03.03 03.10 Base Siab 1.00 EA 16.461 2.912 4.088 24.481 24441.17 00.05.03.03 Malla		COMMIT COM	CONTRACT	NITUTO	CONTINGN		
TOTAL Siab On Grade 1.00 EA 16,641 2,912 4,888 24,441 1.00 EA 23,107 4,044 6,788 33,938 1.00 EA 23,107 4,044 6,788 33,938 1.00 E 24,477 1.113 1,903 9,513 1.00 EA 46,224 8,089 13,578 67,892 1.00 EA 20,711 2,223 2,2740 13,700 2,926 1.00 EA 20,711 2,624 8,089 13,578 6,789 1.00 EA 20,711 2,624 20,600 30,420 1.00 EA 20,711 2,624 2,636 20,400 2,0420 1.00 EA 20,711 2,634 2,636 2,15,013	01	1.00 EA	16,641	2,912	4,888	24,441	24441.17
0.0.0 Mails 0.0.0 Wails 0.0.0 Wails 0.0.0 Elevated Slabs 0.0.0 Elevated Slabs 0.0.0 Elevated Slabs 1.0.0 EA 6,477 1,133 1,903 9,513 100 LB 6,477 1,133 1,903 9,513 100 LB 6,477 1,133 1,903 9,513 100 LB 6,424 6,224 8,088 1,1,50 6,084 1,0,00 1.0.0 EA 70,129 1,622 2,740 1,0,700 1.0.0 EA 70,129 1,634 6,084 1,0,00 1.0.0 EA 71,00 EA	TOTAL Slab On Grade	1.00 EA	16,641	2,912	4,888	24,441	24441.17
1.00 EA 6,477 1,133 1,503 9,513 1,514 1,515 1,	~		23,107	4,044	6,788	33,938	33937.94
1.00 EA 6,477 1,133 1,903 9,513 1,903 1,513 1,903 9,513 1,903 1,903 1,	~						
TOTAL Elevated Slabs 1.00 EA 6,477 1,1133 1,903 9,513	.01	1.00 EA	6,477	1,133	1,903	9,513	9512.85
TOTAL Concrete 1.00 EA 46,224 8,089 13,578 67,899 Excelon Control System 1.00 EA 70,129 1,632 2,740 13,700 Stop Logs 1.00 EA 70,129 1,2273 20,600 103,002 Stop Logs 1.00 EA 1,66,392 25,619 43,003 215,013 TOTAL Cate Side 1.00 EA 21,076 3,688 6,191 30,956 TOTAL Siab on Grade 1.00 EA 21,076 3,688 6,191 30,956 TOTAL Elevated Slabs 1.00 EA 8,459 1,480 2,485 12,425 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 2,485 11,813 19,830 99,148 Erosion Control System 1.00 EA 67,305 11,813 19,830 99,148 Erosion Control System 1.00 EA 62,485 6,135 18,355 91,775 TOTAL Elevated Slabs 1.00 EA 67,305 6,136 10,030 91,039 Erosion Control System 1.00 EA 62,485 6,135 18,355 91,775 TOTAL Elevated Slabs 1.00 EA 67,305 6,136 10,030 91,039 Elevated Slabs 1.00 EA 62,485 10,035 91,775 Elevated Slabs 1.00 EA 62,485 10,035 91,775 Elevated Slabs 1.00 EA 67,305 6,136 91,775 Elevated Slabs 1.00 EA 67,305 Elevated Slabs 1.00 EA 67,305 Elevated Slabs 1.00 EA 67,305 Elevated Slab	TOTAL Elevated Slabs	1.00 EA	6,477	1,133	1,903	9,513	9512.85
Erosion Control System 1.00 JB 1.00 RA 1.00 LA	TOTAL Concrete		46,224	8,089	13,578	67,892	67891.96
TOTAL Gate S16		1.00 JB 1.00 EA 1.00 EA	9,327 70,129 20,711	1,632 12,273 3,624	2,740 20,600 6,084	13,700 103,002 30,420	13699.55 103002.03 30419.59
Concrete OI Slab On Grade OI OI Base Slab OI DI Elevated Slabs OI DI Elevated Sl	TOTAL Gate S16	1.00 EA	146,392	25,619	43,003	215,013	215013.13
Concrete 01 Slab On Grade 01.01 Base Slab 11.00 EA 21,076 3,688 6,191 30,956 11.00 EA 21,076 3,688 6,191 30,956 11.00 EA 36,336 6,359 10,674 53,369 07 Elevated Slabs 07.01 Elevated Slabs 11.00 EA 8,459 1,480 2,485 12,425 12.01 Elevated Slabs 11.00 EA 8,459 1,480 2,485 12,425 12.02 EA 8,459 1,480 2,485 12,425 12.01 Needle Beams 11.00 EA 1,634 286 480 2,399 12.02 EFOSION CONTROL System 1.00 EA 67,505 11,813 19,830 99,148 12.03 EASTON CONTROL System 1.00 EA 35,685 6,136 10,330 51,501							
01.01 Base Slab TOTAL Slab On Grade 1.00 EA 21,076 3,688 6,191 30,956 1.00 EA 21,076 3,688 6,191 30,956 1.00 EA 21,076 3,688 6,191 30,956 03 Walls 07 Elevated Slabs 07.01 Elevated Slabs 1.00 EA 8,459 1,480 2,485 12,425 1.00 EA 8,459 1,634 286 480 2,399 1.00 EA 1,634 29,477 5,136 10,935 11,813 1.00 EA 35,065 6,136 10,306 51,501	-						
01.01 Base Slab TOTAL Slab On Grade 1.00 EA 21,076 3,688 6,191 30,956 1.00 EA 21,076 3,688 6,191 30,956 1.00 EA 36,336 6,359 10,674 53,369 07 Elevated Slabs 07 Elevated Slabs 1.00 EA 8,459 1,480 2,485 12,425 1.00 EA 8,459 1,634 286 480 2,399 TOTAL Elevated Slabs 1.00 EA 1,634 286 480 2,399 TOTAL Beams 1.00 EA 1,634 286 480 2,399 TOTAL Concrete 1.00 EA 1,634 29,477 5,188 8,659 43,294 Gates 1.00 EA 36,485 10,935 11,813 19,830 99,178 Stop Logs 1.00 EA 36,386 6,136 10,330 51,501							
TOTAL Slab On Grade 1.00 EA 36,336 6,359 10,674 53,369 07 Elevated Slabs 1.00 EA 8,459 1,480 2,485 12,425 12,425 10,674 53,369 07.01 Elevated Slab 1.00 EA 8,459 1,480 2,485 12,425 12,425 100 EA 8,459 1,480 2,399 12,425 12,425 100 EA 1,634 286 480 2,399 100 EA 1,634 286 480 2,399 100 EA 1,634 286 480 2,399 1775 Erosion Control System 1.00 EA 62,485 10,935 11,813 19,830 91,775 5top Logs 1.00 EA 35,065 6,136 10,300 51,501		1.00 EA	21,076	3,688	6,191	30,956	30955.62
0.0 EA 36,336 6,359 10,674 53,369 0.0 EA 36,336 6,359 10,674 53,369 0.0 EA 20.0 EA 20.	TOTAL Slab On Grade		21,076	3,688	6,191	30,956	30955.62
07.01 Elevated Slabs 07.01 Elevated Slabs 1.00 EA 8,459 1,480 2,485 12,425 1.00 EA 8,459 1,480 2,485 12,425 1.00 EA 8,459 1,634 2,86 12,425 1.00 EA 1,634 286 480 2,399 1.00 EA 1,634 286 480 2,399 1.00 EA 1,634 286 480 2,399 1.00 EA 1,00 EA 1,003 11,813 19,830 99,148 243,294 250477 5,136 8,659 43,294 2604 6,136 10,300 51,501		1.00 EA	36,336	6,359	10,674	53,369	53368.83
07.01 Elevated Slab	_						
TOTAL Elevated Slabs 1.00 EA 8,459 1,480 2,485 12,425 12,425	09.06.03.07.01 Elevated Slab	1.00 EA	8,459	1,480	2,485	12,425	12424.54
08.01 Needle Beams 1.00 EA 1,634 286 480 2,399 TOTAL Beams 1.00 EA 1,634 286 480 2,399 TOTAL Beams 1.00 EA 1,634 286 99,148 Erosion Control System 1.00 JB 29,477 5,158 8,659 43,294 Stop Logs 1.00 EA 35,065 6,136 10,300 51,501	TOTAL Elevated Slabs	1.00 EA	8,459	1,480	2,485	12,425	12424.54
1.00 EA 1,634 286 480 2,399							
TOTAL Beams 1.00 EA 1,634 286 480 2,399 170 Exercise 1.00 EA 1,634 286 480 2,399 180 Exercise 1.00 EA 2,477 5,505 11,813 19,830 99,148 19,830 19,1775 18,059 10,058 10,00 EA 35,065 6,136 10,300 51,501	09.06.03.08.01 Needle Beams	1.00 EA	1,634	286	480	2,399	2399.29
TOTAL Concrete 1.00 EA 67,505 11,813 19,830 99,148 Erosion Control System 1.00 EA 62,485 10,935 18,355 91,775 stop Logs 1.00 EA 35,065 6,136 10,300 51,501	TOTAL Beams		1,634	286	480	2,399	2399.29
Erosion Control System 1.00 JB 29,477 5,158 8,659 43,294 Gates 1.00 EA 62,485 10,935 18,355 91,775 Stop Logs 1.00 EA 35,065 6,136 10,300 51,501	TOTAL Concrete		67,505	11,813	19,830	99,148	99148.27
		1.00 JB 1.00 EA 1.00 EA	29,477 62,485 35,065	5,158 10,935 6,136	8,659 18,355 10,300	43,294 91,775 51,501	43294.15 91774.74 51501.02

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

TIME 09:22:11 SUMMARY PAGE 40

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	CONTINGN TOTAL COST UNIT COST	UNIT COST
09.06.07 Rip Rap 09.06.11 Electrical 09.06.15 Equipment Building 09.06.95 Controls	1.00 EA 1.00 EA 1.00 JB 1.00 JB	17,430 59,406 61,536 410,020	3,050 10,396 10,769 71,753	5,120 17,451 18,076 120,443	25,601 87,253 90,381 602,216	25600.67 87253.19 90380.61 602216.20
TOTAL Gate S17	1.00 EA	742,923	130,012	218,234	1,091,169	1091169
09.07 Gate S18						
09.07.03 Concrete						
09.07.03.01 Slab On Grade						
09.07.03.01.01 Base Slab	1.00 EA	22,010	3,852	6,465	32,327	32326.64
TOTAL Slab On Grade	1.00 EA	22,010	3,852	6,465	32,327	32326.64
09.07.03.03 Walls	1.00 EA	32,919	5,761	9,670	48,349	48349.15
09.07.03.07 Elevated Slabs						
09.07.03.07.01 Elevated Slab	1.00 EA	13,417	2,348	3,941	19,706	19706.15
TOTAL Elevated Slabs	1.00 EA	13,417	2,348	3,941	19,706	19706.15
09.07.03.08 Beams						
09.07.03.08.01 Needle Beams	1.00 EA	1,560	273	458	2,291	2291.11
TOTAL Beams	1.00 EA	1,560	273	458	2,291	2291.11
TOTAL Concrete	1.00 EA	69,905	12,233	20,535	102,673	102673.05
09.07.04 Erosion Control System 09.07.05 Gates	1.00 JB 1.00 EA	15,403 62,485	2,696	4,525	22,623	22623.09
09.07.06 Stop Logs 09.07.07 Rin Ran		36,424	6,374	10,699	53,497	53497.18
		356,774	62,435	104,802	524,011	524011.37
09.07.15 Equipment Building	1.00 JB 1.00 EA	61,536 408,449	10,769 71,479	18,076 119,982	90,381 599,910	90380.61 599910.18
TOTAL Gate S18	1.00 EA	1,028,163	179,929	302,023	1,510,115	1510115
09.08 Gate S19						
09.08.03 Concrete						
09.08.03.01 Slab On Grade						

09.08.03.01 Slab On Grade

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NATOIA UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

TIME 09:22:11 SUMMARY PAGE 41

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
09.08.03.01.01 Base Slab	1.00 EA	18,156	3,177	5,333	26,667	26667.01
TOTAL Slab On Grade	1.00 EA	18,156	3,177	5,333	26,667	26667.01
09.08.03.03 Walls	1.00 EA	26,283	4,600	7,721	38,603	38603.29
09.08.03.07 Elevated Slabs						
09.08.03.07.01 Elevated Slab	1.00 EA	8,663	1,516	2,545	12,723	12723.38
TOTAL Elevated Slabs	1.00 EA	8,663	1,516	2,545	12,723	12723.38
09.08.03.08 Beams						
09.08.03.08.01 Needle Beams	1.00 EA	1,172	205	344	1,721	1720.64
TOTAL Beams	1.60 EA	1,172	205	344	1,721	1720.64
TOTAL Concrete	1.00 EA	54,274	9,498	15,943	79,714	79714.32
09.08.04 Erosion Control System	1.00 JB	12,600	2,205	3,701	18,507	18506.74
		27,725	4,852	8,144	40,722	
09.08.07 Kip Kap	1.00 EA	18,363	3,214	5,394	26,971	26970.71
		61,536	10,769	18,076	90,381	
09.08.95 Controls	1.00 EA	431,884	75,580	126,866	634,330	634330.14
TOTAL Gate S19	1.00 EA	1,022,944	179,015	300,490	1,502,450	1502450
TOTAL Gated Culvert	1.00 EA	7,315,931	1,280,288	2,149,055	10,745,274	10745274
10 Sitework						
10.01 Venicle Barrier Gate	1.00 EA	4,691	821	1,378	0.830	6890.26
	1.00 EA	138,041	24,157	40,550	202,748	202,748 202748.19
10.03 Floating Weed Barrier	1.00 EA 129402 LF	112,471 194,896	19,682	33,038 57,251	165,192 286,254	165192.23 2.21
10.20 Access Road						
10.20.01 Toe Road/Access Road Shell Rock 10.20.02 Asphalt Paving	1.00 EA	1,899,512	332,415 111,449	557,982 187,076	2,789,908 935,378	789,908 2789908 935,378 935377.90
TOTAL Access Road	1.00 EA	2,536,365	443,864	745,057	3,725,286	3725286
TOTAL Sitework	1.00 EA	2,986,465	522,631	877,274	4,386,370	4386370

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

239,406 1,197,031 1197031 239,406 1,197,031 1197031 66,859,637 334,298,183 334298183 CONTINGN TOTAL COST UNIT COST 142,625 142,625 39,831,273 ESCALAIN 1.00 EA 815,000 1.00 EA 815,000 1.00 EA 227,607,274 CONTRACT QUANTY UOM TOTAL C43 West Storage Reservoir TOTAL Site Electrical 11.01 Power Line Relocation 11 Site Electrical

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

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Wed 31 May 2006 Eff. Date 05/31/06 ERROR REPORT

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

TIME 09:22:11 ERROR PAGE 1

No errors detected...

* * * END OF ERROR REPORT * * *

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

LABOR ID: C43RES EQUIP ID: C43RES

Wed 31 May 2006 Eff. Date 05/31/06 TABLE OF CONTENTS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

CONTENTS PAGE

TIME 09:22:11

SUMMARY PAGE SUMMARY REPORTS

No Detailed Estimate...

No Backup Reports...

* * * END TABLE OF CONTENTS * * *

PROJECT OWNER SUMMARY - Bid Item
PROJECT OWNER SUMMARY - Feature.

PROJECT OWNER SUMMARY - Sub Feat
PROJECT OWNER SUMMARY - Assembly.

Stanley Consultants, Inc.

PROJECT NO. 17300.09.02

C43PS1

Page____Sheet 1 of 3

Structural Quantities Trash Rake Bridge Ŗ TIND 9999 ЯS ≿ 311 S. 117 0.32 QUANTITY TOTAL 117.48 72.35 89.70 135.83 31.40 7.13 46.76 15.59 6.68 20.93 296.04 352.44 14.52 NUMBER 2 2 4 0 4 TRASH HANDLING SYSTEM BRIDGE.XIS HEIGHT 3.0.5 3 1.502 1.502 1.043 0.668 0.668 0.668 0.668 0.668 0.668 0.668 2.67 WIDTH 2.67 LENGTH 49.34 7.26 21.5 24.1 21.5 10.2 7.8 2.7 2.0 11.7 22 22 0.96 SIDE FORMWORK FOR RAISED SIDES TRASH HANDLING SYSTEM BRIDGE Computed By: D. Green 5/23/2006 REINFORCING FOR 8 BENTS Checked By: D. Dreyer 5/23/2006 SIDE FORMWORK FOR BASE END BENT (CAST-IN-PLACE) TOTAL REINFORCING TOTAL FORMWORK REINFORCING RAISED SIDES FORMWORK CONCRETE FINISH TOTAL BASE 4B5 4B6 4B3 4B4 4B7 6B1 6B2 5B1 481 4B2

Stanley Consultants, Inc. Computed By: D. Green 5/23/2006 Checked By: D. Dreyer 5/23/2006

PROJECT NO. 17300.09.02 C43PS1 Trash Rake Bridge Structural Quantities Page Sheet 2 of 3

Checked By: D. Dreyer 5/23/2006	TRASH H	TRASH HANDLING SYSTEM BRIDGE.xls	STEM BRIDG	3E.xls			Tras
INTERMEDIATE BENT (CAST-IN-PLACE) CONCRETE BASE RAISED SIDES	22 0.96	2.67	2.5 0.5	6 12	881.10 15.38	y company	4
SE SED SIDES	49.34 7.26		2.5 0.5	9 27	740.10 43.56	784	1
	CALCULAT	CALCULATED ABOVE			CALC	CALCULATED ABOVE	D AE
	22	2.67		9	352.44	352	** Š.
APPROACH SLABS (CAST-IN-PLACE) CONCRETE APPROACH SLABS TOTAL	30	20	1.5	8	1800.00	**************************************	1
FORMWORK SIDE FORMWORK FOR APPROACH SLABS TOTAL FORMWORK	100		7. 3.	7	300.00	300	*

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Computed By: D. Green 5/23/2006 Checked By: D. Dreyer 5/23/2006

TRASH HANDLING SYSTEM BRIDGE.xls

PROJECT NO. 17300.09.02
C43PS1
Trash Rake Bridge
Structural Quantities
Page
Sheet 3 of 3

REINFORCING		LB/FT					
5A1	29.5	1.043		21	646.14	646	E7
5A2	26.6	1.043		₩	27.73	78	r _B
5A3	19.5	1.043		28	569.48	569	LB
5A4	19.5	1.043		37	752.52	753	LB
5A5	18.5	1.043		က	57.89	28	
5A6	18.5	1.043		4	77.18	11	
5A7	2.0	1.043		4	8.34	œ	
8A1	29.5	2.67		52	1969.13	1969	I.B.
8A2	26.6	2.67		8	141.95	142	1B,
TOTAL REINFORCING REINFORCING FOR 2 SLABS						2.13	NOT
FINISHING	30	20		2	1200.00	1200	SF
PRECAST CONCRETE PILING (18" SQUARE)			48.75	24	1170.00	1170	Ŀ
PRECAST CONCRETE BRIDGE DECK CONCRETE DECK SLAB (1.5' THICKNESS) TOTAL	200	50			4000.00	7.33	7.00m 78 78 78 78 78 78 78 78 78 78 78 78 78
CONCRETE GUARDRAIL	240			. 🕶	240.00	240	FT
STEEL GUARDRAIL	180				180.00	480	Ħ
PRECAST CONCRETE CONTROL BUILDING (107×10 ³)				▼-	1.00	~	EA

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Stanley Designed Checked

Stanley Consultants, Inc. Designed By: D. Green 5/23/2006 Checked By: D. Dreyer 5/23/2006	Ø	iphon Break	Siphon Break Structure.xls			PROJEC Siph	PROJECT NO. 17300.09.02 C43PS1 Siphon Break Structure Preliminary Quantities Page Sheet 1 of 2	17300.09.02 C43PS1 ak Structure y Quantities Page Sheet 1 of 2
SIPHON BREAK STRUCTURE	LENGTH	WIDTH	HEIGHT	NUMBER	STRUCTURES	QUANTITY	TOTAL	
SIDE WALLS CONCRETE Wingwalls Side Wall 1	38	1.5 5.1	7.333	4 0	4 4	3343.85 2244.00		
TOTAL							207	Շ
WALL FORMWORK Wingwalls Head Wall Side Walls TOTAL WALL FORMWORK	38 21 140		7.333 2.5 11	844	444	4458.46 840.00 6160.00	्री 1458	R
REINFORCING TOTAL REINFORCING	5588		0.06	490		164282.73	82	TO LB
FINISH	92	1,5		4	4	1824.00	1824	SF
BOTTOM SLAB CONCRETE G RECTANGLE R TRIANGLE B RECTANGLE	96	<u>∞</u> ∞ ∞	w 4 4	~ 0 0 →	444	20736.00 288.00 576.00	.008	₽
FORMWORK SIDE FORMWORK FOR G RECTANGLE SIDE FORMWORK FOR R TRIANGLE	228 20	•	ю 4	- 0	4 4	2736.00 640.00		
TOTAL FORMWORK							3376	, R

Stanley Consultants, Inc.	Designed By: D. Green 5/23/2006	Checked By: D. Dreyer 5/23/2006
nley Consult	igned By: D. G	cked By: D. Dre
Sta	Des	Spe

Siphon Break Structure.xls

PROJECT NO. 17300.09.02

C43PS1

Page Sheet 2 of 2 4 5 N 4 LB Siphon Break Structure Preliminary Quantities EA Æ SF Ŗ Ŗ გ L Ī 144 260 6912 1224 420 89 27 635040.00 53978.40 1224.00 560.00 6912.00 420.00 144.00 1836.00 4 4 490 490 N 90.0 90.0 1.5 5. 8 8 48 21600 1836 8 2 96 35 7 1.5 FT DIA MANHOLE COVER AND 2 FT DIA FRAME PRECAST CONCRETE MANHOLE RISER FORMWORK
SIDE FORMWORK FOR CROSS SLAB
TOTAL REINFORCING TOTAL REINFORCING REINFORCING TOTAL REINFORCING 6" PVC WATERSTOP CONCRETE TOP SLAB GUARDRAIL FINISHING TOP SLAB FINISHING TOTAL

C43 PS-1 QUANTITIES

# Mari		7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1
			,
1	CHANNEL EXCAVATION	236,651	٥
		375,000 375,000	
N	STA EXCAVATION		
٧	STORM WATER RETENTION POND EXCAVATION	3,779	۵
		-	
ញ	SHEET PILE RETAINING WALL		
4	PZ 32 SHEET PILE	104,840	ED F
œ	CONGRETE CAP	299	₩. GY
ם	CONCRETE CAP REINFORGING STEEL	Position.	Z
٥	HANDRAILING	058/1	H-I
ы	# 14 THREADED ROD	22	ZH
L	C 12 x 25 WALE	80	Z F
0	ANCHOR WALL CONCRETE	744	ר כא
I	ANGHOR WALL STEEL REINFORGEMENT	9.1	NH
4	EARTH WORK FINAL GRADING	-\$1.5;000;00	SJ.
ល	PAVEMENT	92,167	38
4	STABILIZATION	10,241	ΒY
ø	8" SHELL ROCK BASE	2,287	λο
ט	3" ASPHALT STRUGTURAL GOURSE	1,584	N L
۵	1" ASPHALT FRIGTION COURSE	205	Z
9	WHEEL STOPS	-	EA
		1475	

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C43 PS-1 QUANTITIES

		See	200	
7	PAVEMENT MARKINGS	#1,000	L.S	
Ø	SEPTIC TANK - 1000 GAL	1	EA	1
0	DRAIN FIELD	1,000	T (1)	
10	STORM SEWER DITCH BOTTOM INLETS (TYPE C & S)			
	TYPE S 3 600	2	EA	
		3	EA	
11	STORM SEWER PIPES			
	15 " ROP	139	I.F.	پ ^ا ر
,,,,,	14" X Z 3" R C P	272	LF	
	18" RCP	296	L	
1.2	CONGRETE PAVED DITCH	8.2	٥٧	

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CHANNEL EXCAVATION

91974	TOTAL VOLUME		
		5133	29
91974	460		
		5864	32
VOLUME (CY)	LENGTH (FT)	AREA (FT)	(+)CHANGE IN ELEVATION(FT)
	Marka in the second		

	VOLUME (CY)		60296		61091		121387
AREA 3	LENGYH (FT)		220		022		TOTAL VOLUME
	AREA (FT)	6960		7840		7155	
	(-)CHANGE IN ELEVATION(FT)	29		20		27	

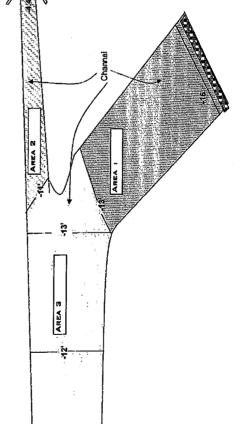
	MARKET STATES	WAREA ZING BANKER	
(-)CHANGE IN ELEVATION (FT)	AREA (SF)	LENGTH (FT)	Vמנטאב (GY)
20.4	1734		
		022	23289
27	3982.5		
		TOTAL VOLUME	23289

TOTAL AREA VOLUME

236,651 °aY

PROPOSED GROUND ELEVATION +16.0°

+



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BTORM WATER RETENTION POND EXCAVATION

۲					
_	TOP AREA (SF)	POND TOP AREA (SF) BOTTOM AREA (SF) AVG. AREA (SF)	AVG. AREA (SF)	DEPTH (FT)	VOLUME (CY)
	6,748	5,445	6,096	8	432
1	8,666	7,402	8,144	N	609
	38,474	35,074	36,774	22	2,724
				TOTAL VOLUME	3.779

PZ 32 SHEET PILE

NORTH WALL

						À				
	one:		<i>†</i>	CHILTETALIAREA (CEC) : PRINTER TO FAUNCA ON BREAKING	(86)	109.219	4		Ter-	1
	THAN KARK I KEN	50,486			<u> </u>			ACAD AREM FT	54354	***************************************
	AREA (BF)	54,181						ARKIGE	55,038	
	HEIGHT (FT)	86.4						HEIGHT (FT)	77.3	
Sheet Pile	LENGTH (FT)	627			BOUTH WALL		Sheet Pile	LENBTH (FT)	712	

CONCRETE CAP

VOLUME (DY)	299
AREA (SF)	6.25
LENGTH (FT)	1,291

HAND RAILING

LENGTH	(FT) 1 330
--------	---------------

REINFORGING STEEL FOR CONCRETE DAP

WALL LENGTH	BAR NUMBER	WT OF BAR	# BAR / LF	WT OF BARS / LF	TOTAL WT
(FT)		(LB/FT)		(1.8)	(Z.F.)
1,291	4	0.668		0.668	0.4
1,291		0,668		0.668	9.4
1,291	9	1.502	9	9.012	5.8
			TOTAL WT		6.7

14 THREADED ROD

TOTAL WEIGHT (TN)		r -		1
Rub WT (LB / LF)		7.65	7.65	
43 LF / Roo		2739	3105	
# OF RODS AT 10' G.C	(EA)	49	72	
WALL LENGTH (LF) # OF RODS		627	712	
WALL		NORTH	SOUTH	

C 12 x 25 WALE

TOTAL WEIGHT (TN)	15.7		
_	20	េស	
WALE WT (LB			
WALL LENGTH (LF) WALE WT (LB / LF)	627	712	
WALL	NORTH	sоитн	

ANCHOR WALL CONGRETE

396	15	712	SOUTH
348	15	627	NORTH
TOTAL VOLUME GY	WALL AREA / LF (SF)	WALL LENGTH (LF)	WALL

ANCHOR WALL STEEL REINFORGEMENT

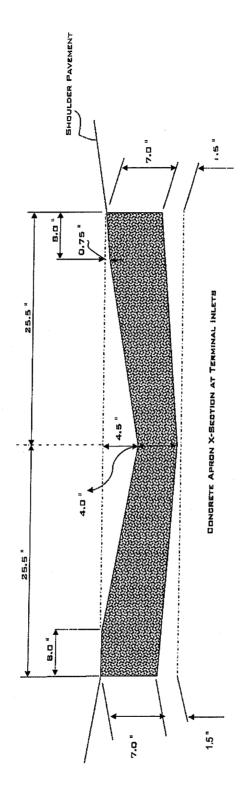
(NE)	7.5		8.5
TOTAL WT (TN)			
WT (LB/LF)	0.42		24.0
# OF BARS / LF	91	-	16
#4 REBAR WT (LB/LF)	1.5		G.
WALL LENGTH (LF)	627		712
WALL	NORTH		SOUTH

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GONGRETE PAVED DITCH

SECTION AREA = 2 SF DITCH LENGTH = 1083 LF

CONDRETE PAVED DITCH VOL 85 CY



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STONE QUANTITIES

Structure	Location	Area (SF)	Factor	Final Area (SF)	Vol _{RR} (CY)	Vol _{B-St} (CY)
S-1	North of Structure	10,200	N/A	10,200	567	283
<u>\$-3</u>	West of Structure	2,100	 			
	TVEST OF CITOCICIE		N/A	4,350	242	∌121 [™]
	East of Structure	2,250	<u> </u>		<u> </u>	
S-7	North of Structure	7,171	1.6	11,473	637	319
	South of Structure					
S-8	North of Structure	10,200	N/A	10,200	~567	283
S-9	North of Structure	1,672	1.6	C 000		169
	South of Structure	2,133	1.6	6,088	338	1034/6888
S-10	West of Structure	3,250	NA		0.70	400000
	East of Structure	3,573	NA	:::6,822	379	» <u>1</u> 90°°
S-11	West of Structure	5,325	N/A			
	East of Structure	5,648	N/A	10,974	.610.	305
S-14	West of Structure	1,974	1.6			
<u> </u>	East of Structure	2,463	1.6	7,099	[™] 394 ·∞	197
	East of Structure	2,403	1.0			
S-15	West of Structure	7,222	1.6	17,134	∜.952∴ે%	476
	East of Structure	3,487	1.6			
S-16	West of Structure	1,585	1.6	-5;068	282	
	East of Structure	1,583	1.6	\$\$5,000°	202	A. 201-71
S-17	West of Structure	1,233	1.6	272420 -10 and	2072.0	449:00°
	East of Structure	1,437	1.6	4;272.≫	237	oksh 2 serves
S-18	North of Structure	1,300	1.6			
	South of Structure	1,331	1.6	4;211	≫234 · · ·	4117×****
S -19	West of Structure	1,128	1.6			المؤلفة والمرادين والمراد
	East of Structure	1,684	1.6	4,500	250	*125
CS-1	North of Structure	12,500	N/A	×12;500%	694	347
CS-2	West of Structure	9,600	N/A	9,600	533	² 267
				Total Volume (CY)	6916	3458
ļ	Filter Fabric (SF)	124,491	- [Tonage (Tn/CY)	9057	4528
			1	20% for Vv	8299	4150

STRUCTURE C43PS1 C43 WEST STORAGE RESERVOIR

PROJECT NO 17300.09 02 SOUTH FLORIDA WATER MANAGEMENT DISTRICT

STEUCTURES CONTROL & MONITORING SITE PHINE STATION C4351-19 CONTROLS & INSTRUMENTS

CONTROLS & INSTRUMENTS				
*			•44	LABOR
6 VHF DATA RADIOS; 1 FOR EACH STRUCT	TURE		MATERIAL	
STRUCTURE C43S1		NUMBER		
SERVICE GATE I PO PO UPPER LEVEL GATE II MIDDLE LEVEL GATE	oints		_ 800	2.00
UPPER LEVEL GATE	•	4	Beo	200
MIDDLE LEVEL GATE UPSTREAM DOWNSTREAM LEVEL 31	W	4	్ల క్రం	200
UPSTREAM DOWNSTREAM LEVEL 11	্প	2	වුරුව	500
3,000 DOWNSTREAM SAMPLER M	u	94+4 ₃	800	200
EMERGENCY GENERATOR 51	N	1:00	800	200
+ TELEMETRY TO FROM CAST	ad Structu		# 500	100
STRUCTURE C4353		NUMBER	•	3.00
STRUCTURE C4353 DEWATERING GATE I	POWTS	: ₫ ≥=₹	600	700
LEVEL CONTROL GATE	**	: 1 miss	800	Zeo
** 32 aso LF LEVEL CONTROL GATE UPSTREAM DOWNSTREAM LEVEL **	M	2	8 <i>®</i> 0	2.00
EMERGENCY GENERATOR **	n	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_පීමර	200
		स्ति देशका के गा। इ.स. १८८३	1,500	100
STRUCTURE C43S7		NUMBER	1172	300
DEWATERING GATE	O POINTS	19 11 (1988) ₁ 1	800	200
** Zipook LEVEL CONTROL GATE	4 "	1 >	800	200
UPSTREAM DOWNSTREAM LEVEL	n n	2	800	200
EMERGENCY GENERATOR		1 9	800	200
# # # # # # # # # # # # # # # # # # #		400	500	100
STRUCTURE C43S8		NUMBER	1,500	2500
DEWATERING GATE	POINTS		පිත	200
** 16,000 UF UPPER LEVEL GATE "	H	1:3 .	890	was to The second
	, n	- 7	800	200
MIDDLE LEVEL GATE	t și	3. 4 .0	800	200
UPSTREAM DOWNSTREAM LEVEL	مر ا	9 1	800	200
DOWNSTREAM SAMPLER		1	800	7.00 2.00
EMERGENCY GENERATOR **		- L	500	100
A PRINCIPLE 04200		NUMBER	1,500	3 00
STRUCTURE C43S9	O POWES	**************************************	p	_
THE MAN DEVIALENT OF THE PARTY	1 4	Silke See	800	200
LEVEL CONTROL GATE	, ,,	2 ¹²	800	200
UPSTREAM DOWNSTREAM LEVEL ** EMERGENCY GENERATOR **	·	- 348 - 348	800	500
_ LINEROENO! GENERALIS		4	800 800	100 200
÷ ★ STRUCTURE C43S10		NUMBER	1,500	300
	m Change		O an	,m) .m.
DETAIL CONTRACTOR	o Powts	ીધીઃ્ક ••••••••••••••••••••••••••••••••••••		760
	14.	5	ේ 8 මෙ ලී 09	200
UPSTREAM DOWNSTREAM LEVEL		4	ර විව දු හ	20° 2 <i>0</i> 0
EMERGENCY GENERATOR	•	4	500	100
# employing 6/3941 7		NI MOED	1,500	340
SIROCIORE 040011	O POARS	NUMBER	4.45	200
** HOOD IF DEWATERING GATE LEVEL CONTROL GATE	4 7	2	800	200
	1 4	20.7	800	
UPSTREAM DOWNSTREAM LEVEL	i "	2	800	200
DOWNSTREAM SAMPLER	. 11	7.000	800 800	200
EMERGENCY GENERATOR	71	1000		200
*		" I see the	500	190 390
<u>i</u>		I_{ii_1} I_i	500	مي سن حريه

COMPUTED BY D GREEN 05-17-06

STRUCTURE C43PS1 C43 WEST STORAGE RESERVOIR

PROJECT NO 17300.09.02 SOUTH FLORIDA WATER MANAGEMENT DISTRICT

					INITALIAN	PEMERAL DISTRICT
1. P	STRUCTURE C43S12	_		NUMBER	MATERIAL	LABOR
	SERVICE GATE	Io	FOINTS	3	800	200
** /6,000 U	JPSTREAM DOWNSTREAM LEVEL	u	4	-2	800	200
MAN 101	EMERGENCY GENERATOR	h	t j	- A	890	200
	‡			-	- 5 <i>50</i> 0	100
	** STRUCTURE C43S14			NUMBER	1,500	300
	LEVEL CONTROL CATE	T. o	POWTS	110mber	<u>తి</u> లద	200
20 molf	JPSTREAM DOWNSTREAM LEVEL	1.0	11		800	200 7 55
** [4] 000 -1 (JPSTREAM DOWNSTREAM LEVEL	44		2	<u>ළුවෙ</u>	Z20
• •	DOMNSTREAM SAMPLER	11	ri	- er filman	890	200
	EMERGENCY GENERATOR		-,	1 = 3		100
	莱			- Section .	1,400	300
	STRUCTURE C43S15		FOINTS	NUMBER	11200	•
** 32,000 LE	DEWATERING GATE	TO,	No.	1	8 <i>0</i>	200
XX Javo	LEVEL CONTROL GATE	¥ 1	L.L		800	200
···	IPSTREAM DOWNSTREAM LEVEL	H	st	2	800	200
	EMERGENCY GENERATOR	4	21	- 18 A 18	ජීණ -	200
	4			1000	500	100
	* STRUCTURE C43S17			NUMBER	1,500	3°2
** 34,000LF	_	To	FOINTS		800	
** MINOS	LEVEL CONTROL GATE		N	4	සුවර	200 200
1.		-1	n		800	700
U	PSTREAM DOWNSTREAM LEVEL	60	٧f	2	800	200
	EMERGENCY GENERATOR		••	All S	500	100
	*				,500	390
	STRUCTURE C43S18			NUNDER		
**34,000 LF	DEWATERING GATE Z	7	PIN75	1	200	700
~~~·	LEVEL CONTROL GATE		p u	A SHARE	<i>90</i> 0	2.00
	UPSTREAM LEVEL 4		# u	Asterior	800	700
· · · · · · · · · · · · · · · · · · ·	EMERGENCY GENERATOR **		4	<b>A</b>	. S00	200
	*				5 <i>00</i> 5 <i>00</i>	300 100
Ž	* STRUCTURE C43S19			NUMBER "		
* * 36,000 LF	DEWATERING GATE	o A	brwzs		300	රිමෙ
A X MAIN III	PSTREAM DOWNSTREAM LEVEL	11 -	<b>₩</b> \ \ \		300	ලවෙ ලී <i>ව</i> ව
	EMERGENCY GENERATOR 4	-	11		300	
34	+.	P	• •	- Z	500	788
<b>W</b>	*	1 2	,	NUMBER (/	500	300
	OF 1 1 FVC1			_	rina.	"Y and the
** 3,000 UF	CELL LEVEL I		10 <b>5</b> %		<i>90</i> 90	720
	`SP ∰aaaaaaa	e i	u			5,00
	<b>T</b> .		į		20 0-	/0°0
	*		*	3 30 1,5	シラ	300

COMPUTED BY D GREEN 05-17-06

### STRUCTURE C43PS1 C43 WEST STORAGE RESERVOIR

PROJECT NO 17300 09 02 SOUTH FLORIDA WATER MANAGEMENT DISTRICT

PUMP STATION C43PS1				
CONTROLS & INSTRUMENTS			//	18=14
CONTROLD & INDITIONELITY		MATSRIAL	LABOR (	
PLC& SCADA SYSTEM NETWORK	NUMBER	50,000	10,000	C Acad Coc 1)
Scana PV1500+	6	3,000	11600	
UPS	-8a-3a	500	100	
ETHERNET SWITCH	<b>8</b> 9	500	100 y	
CONTROL COMPANY LOGIX PLC	***** * <b>6</b> ****	10,000	2,000,	
SCADA NODE NO. 1	e <b>4</b> *335	5,000	1,000 .	
SCADA NODE NO. 2	<b>, 4</b> a + a + '	5,000	12000	
ALARM PRINTER	75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	100 mg	
COLOR INK JET REPORT PRINTER	SECON SYSTEM	1,500		I. Samue Survey
	શ્વાલો	7,500	* 500 ·	
PLC/MOSCAD SERVER	**************************************	7,500	terest da 500 i	•
LOGGERNET SERVER				
REDUNDANT CONTROL LOGIX PLCs		25,000 15,000	100 5 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
REMOTE I/O MODULES		s=3,500	13,000 14	4 - 4 W
Pumping System Control Enclosure PLC ASMIRING ARMERIENCE	ANIMOCO	NC 25, 200	5,000	¥
COMMONIONION	/ NUMBER	2,000	400	
ADMINISTRATIVE COMPUTER	1	500	100	
UPS	2 4		400	
ETHERNET SWITCH	eagestiles	8,000	200	
ADMINISTRATIVE REPORT PRINTER	<b>4</b>	1,800		
VHF DATARADIO	-1 ⁷		400	
LN100 PROTOCOL CONVERTER	66 <b>1</b> 8 3	7,000	41 - 4 - 300 ·	
UHF DATARADIO	71	· .*	1.000	
MOTOROLA MOSCAD-L	est en en en	5,000	600	
MOTOROLA MCP IP GATEWAY	<u>. 1</u> .	3,000 500	100	
12 & 24 VDC POWER SUPPLY	1 Ls	10,000	2,000	
PRIMARY CONSOLES (X2)	NUMBER (x2)		•	
REPORT PRINTER				
SCADA 1 MONITOR	1			
PHONE CUBICLE	1 .			-
ALARM PRINTER	2			
SCADA 2 MONITÊR	1 ne wood doe i			
PLANT RADIO	1			
SECURITY CCTYPYCR SERVER MULITPLEXER	1			
VCR	.1			
LCD MONITOR	1			
CCTV SECURITY EQUIPMENT CABINET	NUMBER		1	
INTERNET VIDEO SERVER	and of contracts	5,000		
MONOCHROME DUPLEX MULTIPLEXER	¹⁹⁸ 네 # # # # # # # # # # # # # # # # # # #	1,000	200:	
CO-AXIAL CABLE SIGNAL SPLITTER	5 4	500	100	
UPS	45 <b>1</b> (5)	5 <i>0</i> 0	100	
120V QUAD RECEPTACLES	2.7	300	200	
	¥4p			
COMMUNICATION RACK	NUMBER	•		
ETHERNET SWITCH	1			e .
RADION TRANSCEWERS	1			
PROTOCOL CONVERTER	1			
MOTOROLA MOSCRO-L RTU	1			
POWER STRIP	1			
DC-VOLTAGE POWER SUPPLIES	1	REMOTE I/O P.	and the second second	
UPS	1	MAIN CONTROL	PANEL.	
			* * * * * * * * * * * * * * * * * * * *	

### STRUCTURE C43PS1 C43 WEST STORAGE RESERVOIR

PROJECT NO 17300 09 02 SOUTH FLORIDA WATER MANAGEMENT DISTRICT

### **PUMP STATION C43PS4**

REMOTE I/O PANEL
MAIN CONTROL PANEL

PUMP STATION C43PS4	
CONTROLS & INSTRUMENTS	MATERIAL LABOR
PLCS SCADO SYSTEM NETWORK	NUMBER
PV1500+	4 8,000 1,600
MOTOROLA MOSCAD-L	5,000 1,000
ETHERNET SWITCH	500 100
CONTROL SOMPACT LOGIX PLC	10,000 2,000
UHF DATARADIO	1,500 300
MOTOROLA MCP IP GATEWAY	3,000 600
TELS METRY TO FROM PUMP STATION	
PRIMARY CONSOLES (x2)	NUMBER (2)
12124.VDC REPORT PRINTER	1
POWER SUPPLY) SCADA 1 MONITOR	1
PHONE CUBICLE	1
ALARMPRINTER	2
SCADA 2 MONITER	1 to make the second of the se
PLANT RADIO	1
SECURITY CCTVIVCR SERVER MULITPLEXER	1
VCR	1
LCD MONITOR	1
CCTV SECURITY EQUIPMENT CABINET	NUMBER
INTERNET VIDEO SERVER	14UMBER
MONOCHROME DUPLEX MULTIPLEXER	1 con-
CO-AXIAL CABLE SIGNAL SPLITTER	
	1 4
UPS	
120V QUAD RECEPTAÇLES	1.
COMMUNICATION RACK /	NUMBER
ETHERNET SWITCH	1
RADION TRANSCEIVERS	The second secon
PROTOCOL CONVERTER	· · · · · · · ·
MOTOROLAMOSCRO-L RTU	· · 1
POWER STRIP	- 1
DC-VOLTAGE POWER SUPPLIES	1
UPS	1
	and the second of the second o

Control Room ARCHITECTURAL
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Computed by Tony Reinking 5/24/2006

			- hope for the	12 27 Marine	K TIN TOKONO	Liverance						7,000
Unit	S F	R T	SF 42 320-	, ≿	≿	CY (555)		SF	باري ال	SF	78 78 78	288 SF 03396 2000 651 SF 149 SF
Area	2320 SF 2320 SF	0.00	532 SF 229 SF 229 SF	13	5	29 CY	Area	288	ဂ္ဂ တိ	207	0 597 51	288 SF 654 SF 149 SF
Total Length Area Unit	116.00	0.00	66.49 28.66 28.66									
F	18.00 18.00		18.33			2.00		·		<b>—</b>		
	40.00		14.84	0.50	0.50	0.50				ete - VC	<u>ə</u>	
Length	40.00		33.32 14.66	36.00	36.00	74.00		16.00	11.10	- Sea	loor - Ceramic Tile 7.00	
Height	20.00		8.00	18.00	18.00	10.00		18.00	8 8 83 83	Area of first floor	Area of second fl	
	Total	1st Floor Total	1st Floor 2nd Floor Total	KENNIGHT IN	oldo Agiprofic	LIRO LE L'OIL				Are	Are	
Walls	Exterior CMC 8	Stucco/Paint	interior CMU wall	First Floor Slab C F RECORD STATE 18.00 F FEB 18.00 F F F F F F F F F F F F F F F F F F	S look English of the Color of	Indexe Fan Exhaust No Epg. F. FORM & VL VLO T	Flooring	1st Floor Sealed Concrete	VCT VCT	Ceramic Tile	2nd Floor Sealed Concrete VCT Ceramic Tile	TOTALS Sealed Concrete VCT Ceramic Tile

PROJECT NO. 17300 09 02	C43
Control Room	ARCHITECTURAL
d by Tony Reinking	w.

Computed by Tony Reinking 5/24/2006		A	Control Room ARCHITECTURAL	PROJECT	ECT N
Glazing (Type 3) Light Grey Glazing (Type 3) Light Grey			1.60 1.6	0.0 SF 0.0 SF	
Windows Aluminum Windows	Width	Leingth Quantity	Quantity	Area	
	12.00 4.00	7.00	2.00	168 SF 28 SF	
Total	0.00	7.00	3.00	126 SF	
Roofing	Width	Leinath # of Floors	of Floors	Area	
Roofing Area	18.00	36.00		048 SF 00 SF 648 SF	
Spiral Stair Case 10' H (3'-6" Dia) Pipe Guard Rail (Roof Perimiter) Pipe Grard Rail (Stairs) Metal Stairs				1 EA 108 LF 16 LF	

237 SF 229 SF 1498 SF 213 SF 1085 SF 680 SF 2584 SF Control Room ARCHITECTURAL 8.00 8.00 8.00 8.00 26.64 135.66 29.68 28.66 187.3 Computed by Tony Reinking Interior Ceramic Wall Tile Painted CMU Interior Ceramic Wall Tile Interior Ceramic Wall Tile Interior Ceramic Wall Tile Wall Finishes Painted CMU Painted CMU

2nd Floor

TOTALS

5/24/2006

1st Floor

Area

18.00

16.00

Painted Concrete Ceiling

Ceiling Finish

1st Floor

00%0 /5/ %BD 288 SF 31 SF 329 SF 329 M2 648 SF ( 977 648 SF ( 977 1 EA 9 EA 7 EA 13.5 EA 9 6 EA 0.0 SF 0.0 SF ΩŢ Width 1.60 36.00 36.00 18.00 18.00 4.17 2nd Floor 2'x2' Suspended Acoustical Ceiling Glazing (Type 1) Tempered Glazing (Type 2) Wired Painted Concrete Ceiling 6" Unfaced Batt Insul. 6" Unfaced Batt Insuli. Double Door Frame Single Door Frame Int. Doors Roll Up Door Single Door Closure Painting Hinges Lockset

Computed by Tony Reinking 5/24/2006		24	Main Pump Station ARCHITECTURAL		PRO	JECT	PROJECT No. 17300.09.02 C43
Evt Mall Einsch	17						
Painted Pre-past Copy Well popul	Height	Length		Total Length	Area	Chiit	
Elev. 67.33 toElev 25 Elev. 71.33 toElev 25 Elev. 71.33 toElev 25 Elev. 71.33 toElev 25	42.33 46.33 44.33	252.00 252.00 84.00	<b>2</b> 8	252.00 252.00 168.00	10667 SF 11675 SF 7447 SF <b>29,730</b> SF		14 TO 1500
Roof Slab							
	252.00	84.00	0:50		412-7 CY		
Parapet Wall Flooring	2.75	672.00	1.50° R. WHING 1116 - 4.5.3.		108 Area		2000
Operating Floor (Elev 25) Sealed Concrete Sealed Concrete Deduct Sealed Concrete Deduct	252.00 -18.00 -30.00	84.00 36.00 5.00			21168 -648 -150	SF SF	
TOTALS Sealed Concrete					20,370	R H	
Wall Finishes	Leingth	Height	# of sides		Area		
Operating Floor (Elev 25) Painted Precast Concrete Painted Precast Concrete Painted Precast Concrete	252.00 252.00 84.00	42.33 46.33 44.33	1.00 1.00 2.00		10667 11675 7447	ឧក្ខេ	
TOTALS Painted Precast Concrete					29,790 SF	SF	
Ceiling Finish Painted Exposed Concrete	252.00	84.00			Area 27/,168	â	

Ü	r D	Ŗ	R	R R		SF		Ā	۳	ЕА
	5	0	0	0	Area	21168	21,168	7	296	G

=15*1.6 =4*1.6 =6*1.6*2 =4*1.6*2 =5*1.6*3	=(4*10)+(8+7+7)+(2*(5+30)) =30+16 =tTotal Stair Leingh	=3*15 =67.33-25
Stairs (Elev 10 to Elev 25) Stairs (Elev 21 to Elev 25) Truck bay Stairs (Elev 10 to Elev 16) Stairs (Elev 21 to Elev 25) Rside Stairs (Elev 20 to Elev 25) Lside Stairs (Elev 20 to Elev 25) Discharge Total Stairs	Pipe Guard Rail Perimiter Removable Guard Rail Perimiter Pipe Grard Rail (Stairs) <b>Total Guard Rail</b>	Ladder down to gallery Level Roof Access Ladder Ladder Total

Ā

Handicap Lift (10' lift height)

4

132 46 94 **272** 

4 ο ο εί α 4 **20** 

Prepared BY: Tony Reinking

### Concrete Ready Mix price

Concrete Budgetary Prices			
Company	Contact	Price/ CY	Location
VSI Mobile Mix	Kevin	\$ 109 00	Fort Myers, FL
Central Concrete Supermix	Lesley	\$ 126 45	Fort Myers, FL
Florida Ready Mix	Rick	\$ 105 00	Fort Myers, FL
Summit Ready Mix		\$ 136 72	Fort Myers, FL
Krehling Industries	Dee	\$ 131 00	Immokalee, FL
Hare Lumber & Ready Mix		\$ 100 70	Clewiston, FL

Average

\$ 118.15

4000 PSI

### Jensen, Glenn

From: Sent: Nathan_Sederstrom@fpl.com Friday, May 26, 2006 9:45 AM

To:

Walker, Wes

Cc:

Bodziony, Todd; Dreyer, Daniel; Grounds, Dave; Jensen, Glenn; McVicker, LuAnn;

Coughanour, Susan

Subject:

RE: C43 Utility Costs - FPL Removals, Relocations, and New Primary Service Extensions

- 1) Construction Manhours are based on what it normally takes to set and frame the poles, pull the wire, and hang the transformers and switches (or remove it in the case of the removal) Having the access road next to the new relocated poles will help keep those numbers accurate (accessible to machinery, versus setting poles by hand and having to climb them).
- 2) Yes, I added some additional dollars and manhours for miscellaneous work.
- 3) Yes, the extensions on the Southeast side are included in our estimate calculations.

Again, keep in mind that these are ballpark estimates - however, we did go to some length to ensure that we are pretty accurate Having the pole counts from your survey work definately helps to ensure better accuracy

### Nathan

### Nathan,

This is great Three clarifications:

1 It seems obvious, but just to clarify: Are we correct in understanding that the Construction Manhours include all necessary materials and equipment needed for the corresponding work?

2 Do your numbers include a percentage adder for "Undeveloped Design Details, and other un-identified work?" One example is the relocation of a few poles at pump station PS-1 for the intake canal We don't want to

unnecessarily compound such allowances

3. Does this include something for the primary service extensions to the east and southeast of the reservoir that are not underground?

Thanks for the help,

Wesley C Walker, P.E Principal Elec Engr Stanley Consultants, Muscatine, IA Fax 563 264-6658 Tel 563 264 6374 walkerwes@stanleygroup com

----Original Message----

From: Nathan_Sederstrom@fpl com [mailto:Nathan_Sederstrom@fpl com]

Sent: Friday, May 26, 2006 9:01 AM

To: Walker, Wes

Cc: Bodziony, Todd; Dreyer, Daniel; Grounds, Dave; Jensen, Glenn; McVicker, LuAnn; Coughanour, Susan

Subject: Re: C43 Utility Costs - FPL Removals, Relocations, and New Primary Service Extensions

Here is FPL's ballpark estimate for the removal, relocation and installation of new Distribution facilities assocated to the C43 project

REMOVAL of existing poles and conductors within the C43 project area:

\$240,000 (1,500 Construction Manhours) Installation of RELOCATED POLES AND CONDUCTORS along the North boundary:

\$560,000 (2,100 Construction Manhours) Installation of UNDERGROUND PRIMARY and padmounted transformers:

\$ 15,000 ( 150 Construction Manhours)

Total ballpark estimate: \$815,000 (3,750 Construction Manhours)

I added the amount of construction manhours to illustrate the timeframe

I would plan on 200-300 CMH being completed per week - making the FPL construction timeframe around 3-4 months, as you plan in the total schedule

| Nathan Sederstrom | |-----|

-----

Senior System Project

Manager

| Florida Power & Light|

| 2425 Thompson St, Ft |

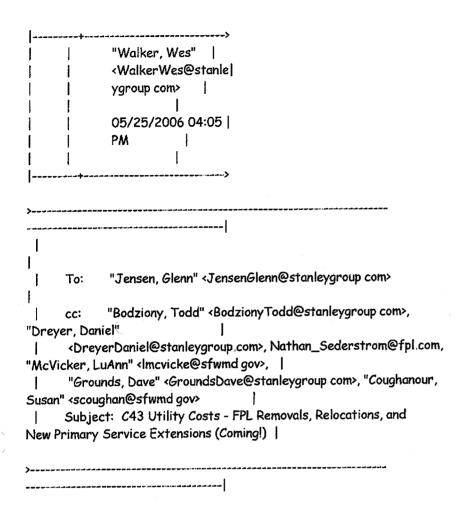
Myers

FMO/FM2, (239)

332-9154

_____

| Fax: (239) 332-9128 |



Glenn,

Moments ago, Nathan shared that tomorrow we should receive some preliminary FPL estimates for the following from Overall Reservoir Site Electrical Plan:

- FPL Removals 3ph along Header Canal (7 5 miles 3ph); 3ph misc taps (2 25 miles)
- FPL Relocations along north side of reservoir (6 mi) and down east side to Header Canal (1 mile)
- New FPL Primary Service Extensions

Structures 5-1, 5-8: Extend 3ph overhead over canal one span, then underground for 200 ft to pad mount transformer Load is still small, even with 16 each 3hp motors, so a small three phase padmount may not make sense There could be 4 to 6 gates that might operate at the same time, but very infrequently At the meeting I recall FPL to suggest pole mounted transformers at that point with underground secondary into control building

Structure S-12: Extend 1ph overhead over canal one span; then underground for 4,300 ft

Structure S-3: Extend 1ph overhead from existing FPL line to

south

- now shown at about 3,800 ft

Structure S-15: Extend 1ph overhead from S-3 north - now shown at about 2,600 ft

Pump Station PS-1: Extend 3ph Primary from existing 3-ph line along Townsend Canal into 500 kVA pad mount transformer next to building

- length now shown at 615'.

All other structures and PS-4 will be immediately adjacent to existing or relocated line.

Nathan indicated that his current working number is in the range of \$750k - \$850k

I will get that information to you as soon as I review

Wes

#### Jensen, Glenn

From:

Bodziony, Todd

Sent:

Friday, May 19, 2006 3:55 PM

To:

Jensen, Glenn; Walker, Wes

Subject: Cost Estimate for electrical Structures

Glenn,

The following breakdown is a list of modifications to the S67 MCACES budget for electrical work based a conference call between Wes Walker and Todd Bodziony on 5/19/06

Attached under pdf is a copy of the S67 Mcaces estimate that includes our markup which holds for all of the structures unless otherwise noted below. All of the items shown in the electrical section under boat ramp and electrical work apply

#### S11:

Reduce the Control panel cost by 10K Add an item for RTU w\PLC qty 1 @ 5K Add an item "Hoist Starters and Remote Controls" qty 2 @5K Add an item "Actuator starter and remote controls" qty 2 @5K

S10: Same as S11 with the following changes Delete 1 hoist starter (qty 1 remaining)

S3: Same as S11 with the following changes
Remove Controls and Panel unit
Delete Hoist starters (qty 0 remaining)
Replace RTU w\PLC with "RTU\MOSCAD" qty 1 @ 3K
Increase Actuator Starter price to 7K each (qty 2)

S15, S9, and S7 are the same as S3

S18: Same as S3 except:

Removeribe stilling wells

S17: Shares the control building and generator with S18 The only costs shown for S17 should be the following: Add 2 Actuator Starters priced @ 8K each Add 1 "Stilling well w/ remote controls" @ 15K

S19, S14:

Same as S3 except:

Oty 1 Actuator Starter @7K

S1, S8: Start with S3 as Base
Add 4 Actuator Starters @ 5K
Add 12 Actuator Starters @6K

FOR INTAKE STRUCTURE

Increase Generator size to 35KW and adjust price
Increase ATS size to 225A capacity and adjust price
Increase panel board size to 225A capacity and adjust price
Add "High Head Stilling Well w/ remote controls" qty 1 @ 30K
Change "Stilling Well w/ remote controls" to qty 1 @ 15K

S12: Start with S3 as Base
Add 4 actuator Starters @5K
Add "High Head Stilling Well w/ remote controls" qty 2 @ 30K
Remove "Stilling well w/ remote controls"

Good luck this weekend and give me a call on Monday if you have questions 1 think Wes may be in tomorrow for a few hours

## Todd Bodziony Electrical Engineer Stanley Consultants INC.

1601 Belvedere Road, Suite 400 East West Palm Beach, Florida 33406

Phone: 561 712 2254 Cell: 772 291 3195 Fax: 561 689 3003

Email: bodzionytodd@stanleygroup.com

www stanleygroup com

Stanless Steel Stanless Steel Stanless Steel Stanless Steel Cast Iron Cast Iron Cast Iron Stanless Steel Stanless Steel
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	Reservoir Related Quantific		Quantity
No.	Description		
		L.F	129,40
1	Silt Fence	1	120,10
		CY	1,070,36
2	Stripping	<del>                                     </del>	1
	Duringer Blooket	CY	192,85
3	Drainage Blanket		
	Toe Drain Collection System - Perforated Pipe	LF	99,13
4	The Diam Concolor Cyclem 1 Six and 1		
5	Toe Drain Collection System - Solid Pipe	LF	7,54
	100 Diani ochoskov - jes		
6	Toe Drain Manholes	EA	20
_ <u>~</u>			
7	Toe Drain End Treatment		
7a	Filter Fabric	SY	34
7b	Rip Rap	TN	
8	Flat Plate Soil Cement (Perimeter Dam plus	CY	715,4
0	Separator Dam)		
		CY	74,24
9	Stair Step Soil Cement	- 01	
		SF	4,485,9
_10	Slurry Wall		
44	Chiranov Drain	CY	130,2
11	Chimney Drain		
12	Grassing	AC	4
14	Orasony		
13	Access Roads	CY	
	8" Shell Rock	CY	115,7
	Asphalt Paved		14.3
	Stabilization	SY	44,3
	Shell Rock Base (From on-site)	CY	7,8 5,4
	Asphalt Structural Course	TN	1,6
	Asphalt Friction Course	TN	1,0
		CY	19,772,4
14	Random Fill and Canal Excavation	<del>                                     </del>	15,712,7
	Select Fill	CY	41,0

#### Silt Fence

Install Silty Fence around entire perimeter of project Consider repair and installations at other locations

Perimeter =

86,268 LF

Use additional 50%

43,134 LF

Total =

129,402 LF

Silt Fence

## **Stripping**

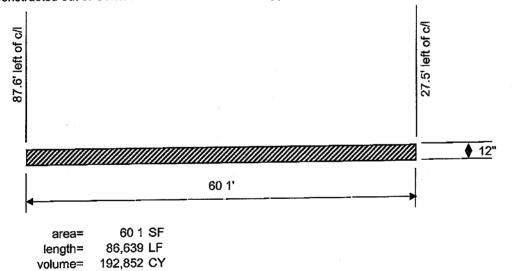
Prepare foundation for the reservoir embankment, bench and seepage canal

Strip the top 8" for the full width of the above items

Width= 500 FT
Depth= 0 67 FT
Length= 86,268 LF
Volume= 1,070,362 CY

## Drainage Blanket

Constructed out of Concrete Sand or C-33 Sand Applies around entire length of perimeter dam



## **Toe Drain**

6" Perforated PVC Pipe (Seepage collection pipes)

Base Line North:	From Sta	To Sta	Length
From baseline stationing along pipe:	869+68	1385+98	51,630 LF

6" Perforated PVC Pipe (Seepage collection pipes)

o i citotatea i vo i ipo (ocopago concentration)							
Base Line South:	From Sta	To Sta	Length				
From baseline stationing along pipe:	6+02	481+02	47,500 LF				

	99.130HF
Total Length of Perforated 6" PVC	99,130 14
Total Bongan or Control	

## **Toe Drain**

6" Solid PVC Pipe (outfalls from MH)

Base Line North:

Dase Lille I	TOTAL:		
No. Of	Length of Ou	tfall Pine at	_
MH's	Each		Subtotal Length
w/outfall	Lacii Mii		
28	130	LF	3,640 LF

Rase Line South

Base Line :	Base Line South						
No. Of MH's w/outfall	Length of Ou Each	=	Total Length				
30	130	LF	3,900 LF				

1T-4-11	7 541111 F
Total Length of Solid 6" PVC	1,0-701-1
Total Bollgan C. Colle	

#### **Toe Drain Manholes**

**Base Line North:** 

85 EA

**Base Line South:** 

115 EA

Total

200 EA

## **Toe Drain Outfall End Treatment**

Apply to ends of outfall pipe Line area with filter fabric Place rubble rip-rap (limerock) on fabric

Surface area at each application is 46 SF Depth at each application is 1 5 FT.

Quantities per appli Description	Are		Depth		Volu	ıme	Weight (97	LB/CF)
Limerock Rip Rap	45.75	SF	1.5	FT	68.6	CF	3.3	TN
Filter Fabric Liner	5	SY			,,			
Use 25% void ratio				$\vdash$			2.5	TN

#### No. of Applications=58

Totals			Plus 20% Contingency	
Limerock Rip Rap	144.78	TN	173.7	
Filter Fabric Liner	290	SY	348.0	SY

#### Soil Cement Flat Plate Soil Cement

#### **Baseline North**

Station	EL	Area (SF)	Length (LF)	Volume (CY)
1000+00.00	55.00	168		
			23344.12	145560
1233+44.12	55.00	168		
	~		90.00	556
1234+34.12	54.00	165		
	J		15216.46	93099
1386+50.58	54.00	165		
Subtotal				239215

#### **Baseline South**

Station	EL.	Area (SF)	Length (LF)	Volume (CY)
2000+00.00	55	168		
			19079.54	118969
2190+79.54	55	168		
			90.00	556
2191+69.54	54	165		
			28449.62	174063
2476+19.16	54	165		
Subtotal				293587

Total Volume =

532,802 CY

#### **Soil Cement**

Stair Step

Area Each Step =

186

#### **Baseline North**

Station	EL.	Area (SF)	Length (LF)	Volume (CY)
1000+00.00	55.00	24		
	v= (- <del></del>		23,344	20,906
1233+44.12	55.00	24		
			90	78
1234+34.12	54.00	22		
,, ,	·		15,216	12,579
1386+50.58	54.00	22		
Subtotal				33,562

SF

#### **Baseline South**

Station	EL	Area (SF)	Length (LF)	Volume (CY)
2000+00.00	55	24		
			19,080	17,087
2190+79.54	55	24		
			90	78
2191+69.54	54	22		
			28,450	23,518
2476+19.16	54	22		
Subtotal				40,683

Total Volume =

74,245 CY

## Slurry Wall (Soil Bentonite Wall)

Applied in the perimeter dam for its full length except at structures that are in the embankment

Quantity determined is the square foot area of the wall from a top elevation of 47 0 to a bottom elevation of -0 5

Height of Wall =

52 FT

Length of Wall =

86,268 LF

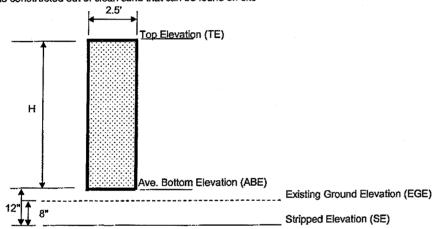
Area of Wall =

4,485,936 SF

## **Chimney Drain**

Chimney Drain sits on top of the blanket drain It is constructed in 3' lifts as the dam embankment is constructed

It is constructed out of clean sand that can be found on site



Base Line	North	EGE	SE	ABE	= = <u> </u>	H	A (SF)	E = L (ft)	Vol (CY)
From	To								
1090+00	1135+00	18.8	18.1	19.1	43.0	23.9	60	4,500	9,946
1135+00	1250+00	19.6	18.9	19.9	43.0	23.1	58	11,500	24,565
1250+00	1365+00	23.8	23.1	24.1	43.0	18.9	47	11,500	20,093
1365+00	1386+50	26.9	26.2	27.2	43.0	15.8	40	2,150	3,149

Base Line	South	EGE	SE	ABE	TE	H	A (SE)	E (n)	EVol (CY)
From	То								
2010+00	2020+00	22.2	21.5	22.5	43.0	20.5	51	1,000	1,895
2020+00	2045+00	23.2	22.5	23.5	43.0	19.5	49	2,500	4,507
2045+00	2140+00	24.2	23.5	24.5	43.0	18.5	46	9,500	16,247
2140+00	2220+00	25.2	24.5	25.5	43.0	17.5	44	8,000	12,941
2220+00	2330+00	26.2	25.5	26.5	43.0	16.5	41	11,000	16,775
2330+00	2405+00	27.2	26.5	27.5	43.0	15.5	39	7,500	10,743
2405+00	2460+00	28.2	27.5	28.5	43.0	14.5	36	5,500	7,369
2460+00	2476+19	29.2	28.5	29.5	43.0	13.5	34	1,619	2,019

**Total Chimney Drain** 

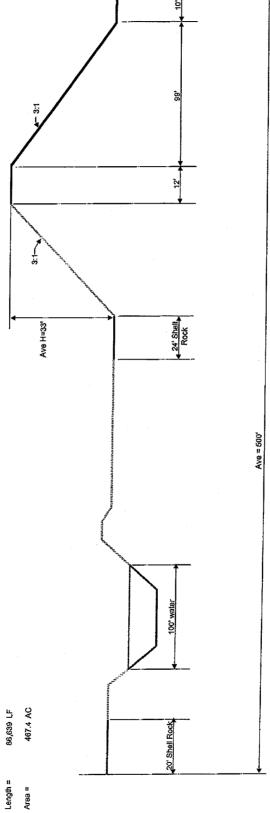
130,250 CY

# Grassing

All areas disturbed that will not be paved, receive soil cement, shell rock or water will be grassed.

235 FT Determine width of reservoir construction corridor that will receive grassing Remaining Width = 600' - (20'+100'+24'+12'+99'+10') =

Агва =



#### **Access Roads**

#### Perimeter Access Road - Shell Rock (Shell Rock from On-Site)

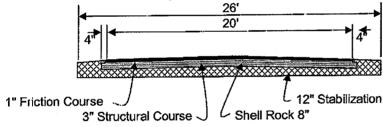
Length of Road= 128,907 LF

Width= 20 FT

Depth= 0 67 FT

Volume= 63,976 CY

#### Perimeter Access Road - Asphalt Paved



Length of Road= 15,350

Stabilization= 44,344 SY

Shell Rock Base= 7,873 CY (Shell Rock from on-site)

Asphalt Structural 5,453 TN Use 110#/SY/inch of asphalt

Course= 1,689 TN Use 110#/SY/inch of asphalt

#### Toe Road at Base of Perimeter Dam - Shell Rock (shell Rock from On-Site)

Length of Road= 87,010 LF

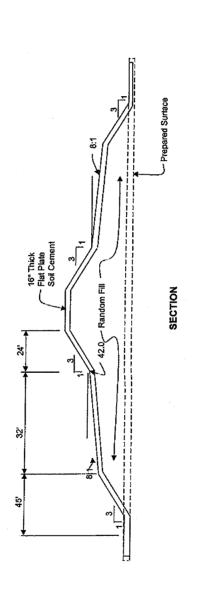
Width= 24 FT

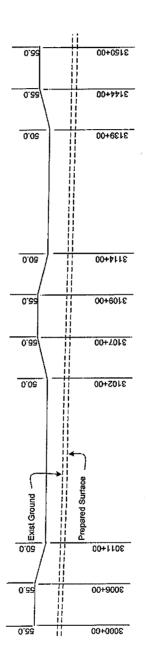
Depth= 0 67 FT

Volume= 51,819 CY

Total Shell Rock= 115,795 CY

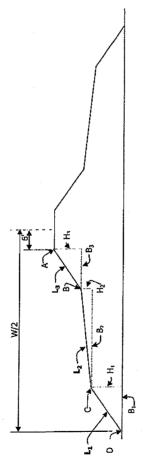
Separator Dam Construction Quantity Components





PROFILE

Flat Plate Soil Cement on The Separator Dam



-	45.11	_	_	Τ-	; 1	_		_	_	_	1	_	1	_		,	_	Le	_	
	3	264.9		264.9		233.3		239.6		277.6	ı	278,9		252.3		252.3		283.9	1_	285.2
C/M		132.5		132.5		116.7		119.8		138.8		139.4		126.1	_	126.1	L	142.0	L	142.6
Choch (	133	9		6.0		6.0		6.0		6.0		6.0		6.0		6.0		6.0		0'9
		41.1		41.1		41.1		44.3		47.4		48.1		50.6		50.6		50.6		51.2
	Ŧ	900		39.0		39.0		42.0		45.0		45,6		48.0		8,0	Γ	48.0		48.6
-				13.0		13.0		14.0	r	15.0	T	15.2	<b>†</b> ~	16.0		16.0	T	16.0	Γ	16.2 48.6
H	Elev	25.0	T	25.0	П	25.0		24.0		23,0		22.8		22.0		22.0		22.0		21.8
	E	32.2		32.2		32.2		32.2		32.2	-	32.2		32.2		32,2		32.2		32.2
		32.0		32.0		32.0		32.0		32.0		32.0		32.0		32.0		32.0		32.0
	F	4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0		4.0
0	Elev	38.0		38.0		38,0		38.0		38.0		38.0		38.0		38.0		38.0		38.0
		41.1		41.1		25.3		25.3		41.1		41.1		25.3		25.3		41.1		41.1
.8	æ	39.0		39.0		24.0		24.0		39.0		39.0		24.0		24.0		39.0		39.0
H	F	13.0		13.0	į	8.0		8.0		13.0		13.0		8.0		8.0		13.0		13.0
8	Elev	42.0		45.0	9 4,	45.0		42.0		42.0		42.0		42.0		42.0		42.0		42.0
. 4	Elev	55.0		55.0	0	50.0		50.0		55.0		25.0		50.0		50.0		55.0		55.0
CT.S		00+000		00+900	00.44	201+00	1	102+00		107+00		109+00		114+00		139+00		144+00		150+06

Flat Plate Soil Cement on The Separator Dam

274,4233 1.33 364,983 274,4233 1.33 364,983 236,777 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77 236,77
271.261 271.261 271.261 236.47 239.638 280.747 280.747 245.962 245.962 246.125 290.234 290.234

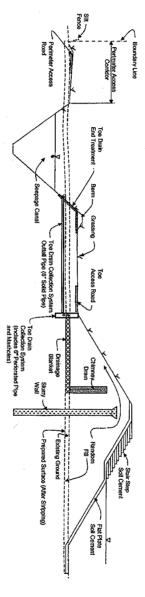
#### Quantity Estimate for Reconstructing the Main Entrance Road

Item	Description	Length (ft) of Road	Width (ft)	Depth (ft)	Quantify	Unit	Cost
1	Traffic Control					LS	\$5,000
2	Erosion Controls						
	Silt Fence (Ea side of Road)	3,120			6,240.0	LF	
2b	Staked turbidity burrier						
	#1 West Side		33		33.0		
	# 1 East Side		33		33.0		
	#2 West Side		30		30.0		
	# 2 East Side		28		28.0		
	# 3 East Side		33		33.0	LF	
3	Clearing and Grubbing	3,120	60		4.3	AC	
4	Cross Drains						
	1-48" RCP w/Mitered End Sections				87.0	LF	
	2-48" RCP's w/Mitered End Sections		·		120.0	LF	
5	Stabilization	3,120	36		12,480.0	SY	
6	Shellrock Base (From on-site)	3,120	24.7	0.7	1,998.0	CY	
7	Asphalt		,				
	3" Structural Course	3,120	24	0.25	1,287.0		
	1" Friction Course	3,120	24	0.08	411.8	TN	·
8	Sod	3,120	8		2,773.3	SY	
9	Seed and Mulch	3,120	24		8,320.0	SY	
10	Striping					LS	\$2,000
11	Signing					LS	\$2,000

Length of Rd measured from SR 80 south edge to Perimeter Rd north edge

^{*} Used 110 # / SY/inch of asphalt pavement

^{**} Length + 10% added



Perimeter Dam Construction Quantity Components

And Boat

MANNESTTANCE ROLD TRY BETTON TO THE PARTY BETT

TECHNOL .

The Stides

## PANTEMIA 12017  ## PANTEMIA 1
FT.
25 407. (AMBERS) 15 10 10 10 10 10 10 10 10 10 10 10 10 10
ALLOWABLE PROJECTION AND PRACE   15   15   15   15   15   15   15   1
BASE SECTOR 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10 - 1-10
TOWER   TOWER   LEG
ELEVATION - vi

256,11 1436.16 104,56 138 420.91 330,61 178.30 OUTSUT MANHAS LABOR ROLLEMAY HATERLAL SUBCOUTE TOTAL CST TIME 09:89:39 DETAIL PACE 0.0 0 0.00 180.20 212.00 3,638 106.00 183,42 170.66 9.0 9.00 13.81 75.91 4,879 110.33 19.17 36.15 72.30 QTY Apowerchies 9.0 8.0 9.53 8.00 U.S. Army Corps of Engineers
RMseammes River Plock Control - Contract 6A-2
95% Submitter Retimente
18. Plockway Control w Diversion Str 0.60 0.00 .00 0.40 69.0 60,00 4.25 97.0 0.35 1.25 0.63 1.00 EA MERFETPIL A.00 EA ENLERGE 13.00 BA RELERIS 0.00 MAF SELERIA 13.00 EA RELERIS 7.00 SA EBLERIS QUANTY UOM CREW ID CORTR23 2,00 MA ERLERIS A.00 BA MSPPA 4.00 EA MSPPA ALOUEN HSPPA Currency in DOLLARS BT 00'T 50.00 LP (16224 0100 > Matex centers + sockets, 4 term, <16623 3230 > HD Extr. floodilgnt, 250W night Dress sodium lamp, enct, heavy Strainnes, bakt type, 3/4" pape whee, parf set, aimplex, brn, sprewed <02230 4010 > Excavate utility trench. 30*

dapp, 12* wide, 40 HP. chain
thencher <16821 1020 > Cathodic protection, anodes,
nagaesium type, 32 # USR BE 416711 0011 > Heter Connection by Utility <16181 6020 > Grounding, laid in trench,
copper, bare stranged, 2/0 . <16617 0001 > Light pole foundation 45 tall, xound, 3 no. Opagonal, conc cuum Safety Britch <16611 4100 > Compact Fluorescent UBR Mg <15080 2104 > Protective Cover <15080 3102 > Pressure Gage TOTAL Spillway S67 15.03.16.00 02. J. Electrical Work <15080 3103 > Va <13697 2380 > 15.03.16.00.02. Boat Ramp 15.03.16.00. Blectrical USR BL USA REI Air, Et. rsk et No at LABOR ID: NAI97B EQUIP ID: RG397# AB HE 됐 USR ME 15.03. Care a Diversion of Mater 15.03.16. Blectrical Tue 18 Dec 2001 Hft. Date 02/01/61 ORTAILED ESTIMME

UPB ID: UP97EA CREW ID: NAT97B

Tue 18 Dec 2001 Eff. Date 03/01/01 DETALIED ESTIMATE	and the state of t	U.S. Army Co. PROJECT KIBEA2: KISBIAMBE E.	U.S. Army Corps of Engagesra Kasamane Etyen Plood Control	Contract 6A-3	Ģ				TIME	TENE 09159139
	, alaka (a a spillija Va	15. Plochay Con	994 Budmical Edimate Plocenay Control & Diversion Sir						DETAIL PAGE	AGE 28
18.03. Care a Diversion of Water		370111111111111111111111111111111111111	QUANTY UOM CREW ID	OUTPUT	MANHRE	LABOR	BOULDMAN	MATERIAL	SUBCOATE TOWAL CST	Orbit, CSP
BIE 2	<16617 1040 >	tophitig, poise, one 6' arm, 30' facered in xmd,	13.00 EA EXLIBIG	28.0	7.33	208.29	35.83	i	0.00 212 0 113	1127.10
78 as:n	<16617 0002 >	Lighting, poles, wood, 201	-00 RA ZELERIS	n 60.	2 0 7	56.86	8.78	45.80	0.00	522.44
NIL S	<16338 4400 >	Safety switch, bry dty, 100 amp, w? fuse, 600 volt, 3 bole hshh a	1.00 EA EBLERIZO		12 LA	146,29	. 60.	421.87	9 00	558.25
USE ED	<16181 0105 >	Ground Red 3/4" x 20' Long	1,00 EA SELECTROI	0.50	2.00	60.33 80	0.40	132.50	0.00	192.83
MXZ B1	<16325 £320 >	Panelboard assem, 12-20A barr. main 1ugs. 100A, 1ph, 3 wire, 120/240V	TOO BY BEPERIECT	1 0.13	6.47	255.63	00.0	469.58	00.00	725.31
a asu	<16323 0001 >	Nema 4% Stainless steel encl Norg: Use for Panel L	1.00 KA BELEKURCI	11 0.42	2.40	72.39	9.0	795.00	0.00	867.39
NZ5 E	<16018 9640 >	Conduit to 15' H, 3" die, inci couplings only, steel rigid galv	12.00 LP BELEVIECE	4.00	25.0	7.64 119	00.0	8.70 138	0.0	16,34
		North Use for Panel is								
USR BU	< 03000 0001 >	Concrete foundation	1.00 EA ULABES	0.75	0.0 8	187.80	9.87	106.00	0.0	303.66
a iin	<02230 4020 >	Excavate utility trench, 30. deep, 24 wide, 40 HP, chain trencher	1700.00 LF CORTR23	33.25	0.11 183	2,30	3.26	00.0	9.0	5.56
MIL	<16018 0580 ×	Conduit to 15' N.1.5" dia, inci	17.00 LF RELEGIEGS	10.00	0.10	3.62	0.00	2.94 86	9.00	5.95 134
MIC SI	<16018 0600 >	Couplings only, steel rigid galy	O 30.00 LF BELREIECH	01 8.13	0.12	3,71	00.0	1.94 1.86	00.00	7.66
MIL ET	<16119 1200	> Wire, 600 volt, type THRN-THEM, copper, stranded, #12	0.04 MAP RELEBIECT	G 0.14	7.25	216.58	0.00	76.88	0.00	295.43
# 11 W	. <16119 1250 >	Mire, 600 voit, type THMM-THHM, Copper, Stranded, #10	1.50 NLF BRIRELECT	C1 0.13	9.00	241.31	0.00	126.67	0.00	367,98
MIL M	< 16119 1350 >	Wire, 600 volt, type THRN-THRN, copper, stranded, #6	0.95 MLF BRIEKIZCI	C1 0.08	12.35	372.40	9.00	275.60	0.00	548.00
NII S	416119 1600	> Mire. G00 volt, type THRN-THEN, OODDer, strended, 1/0	0.15 MLF RELECTED	G1 0.04	24.39	735.71	0.00	1113.00 220	. 8.	1848.71
Labor id: naigts equip id: RG3978	25	Currenc	Currency in politans				CREM	CREM ID: NAT97B	varen iar san	UP97EA
	ACAMAN ANTON MANA									
man the same of the same and the same same same same same same same sam										

Tue 18 Dec 2001 Eff. Date 03/01/01 DETAILED BEYINATS		U.S. Army Corps of Englineers RROJECT KISGAS: RIGHT SERVINGE REPETION CONTE	).3. Armv.Corps of Englineers Elfatimes Elvent Flood Control - Contract 6A-2 95\$ Stebattell Estimates	ers ntro Con	tract 6h-					o shit	g.
2		15. Ploodway Control & Diversion Str	roi & Divexe	ton Str						detrik prge	55 E
15.03, Care & Diversion of Water			QUANTY UOK CREM ID		OUTPUT MANERS	WERB	LABOR EQU	UIPMAN HE	EQUIPMENT MATERIAL SUBCONTR TOTAL CST	SUBCONTR TO	TAL CSF
	<16232 2492	Wiring device, receptacts, gnd faut introl, 20 smp, duplex	1.00 PA B	TOSTESTES	3,38	0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	B.94	8.6	32 22 23	00.0	41.16
JE JIW	<16712 1030 >	Conduit, direct burial only, FVC Sched 40, 1" dia, W/coupling 1	1670.00 18 8	Beterisci	32.50	6.0 18	2,046	00.0	9.62	0.00	2,981
188	L <16153 0014 >	Cable Terningtion #12	57.00 Eh.	BUER19	31.25	0.08 S	2.43	00.0	0.27	0.00	2.69
USB B	6 <16153 0013 >	Cable Texnination #10	22.00 BM F	HELBR19	27.78	0.09	2.73	0.00	0.53	9.0	5.26 96
USR EL	<16153 0012 >	Cable Termination #6	10.00 EA 1	erler19	25.00	0.10	3.84 40	0.00	0.30	0.0	4 ti
NSR 30	<16153 0010 >	Cable Termination #1/0	18.00 BA	RELER19	16.67	0.15	108	0.00	3.18	00.0	7.73
HII. S.	32 <16712 1050 >	Conduit, direct burial only, PVC schod 40, 2 dia. v/coupling	300.00	Beliebech	22.50	9.04	1.34	0.00	4.03	0.00	2.37
HIL E	. <16018 0520 >	Conduit to 15' N, 3/4" dia, inci couplings only, steel rigid galv	30.00 LF	recertael	15.63	90.00	1.93	00.0	4. 9.18	0.00	3.22
MIL B	4 416711 0500 >	Elec a rea strawk, 2'x2'x2'x2'-6" b, hand house, precast conc.	4.00 BA	erler3	0.31	8.00 8	337.22	36.13	420	0.00	591.36
N77. 8	Bb <16333 0620 >	Contactor, lighting, 30 amp, 600 volt. 4 pote, electrically held NOTE: Use for LC: 6 LC2	2.00 KB	BELERUECI	0.41	61 45 64 (10	73.12 193	0.00	229.35 605	0.00	302.48
15.03.26.00.03.	# 10171.	Hoat Ramp			•	629	22,363	6,839	32,731	428	64,857
15.03.16.00,01		line Extension									
UBR	* 416910 0005 >	Unility Line Relocation Norse Price Relocation Glades Ergétrif; Lace Playlo, Fi 4-800-226-4028 Althu Glann Strison	Standa-160, 00.1	Karans	05:30	90 90 90	17.77 17.77	196.73	1272.36	0.00	2,3399
	n programa de la composição de la compos										
LABOR ID: MANGOR SOURCE IN. ENGAGE		·									
		Currence	Gurranov in DOLCARS	_				CRBN XI	свем ко: какутв	UPB ID: UPSTER	AE/640

week with a fit dated	A LIMITE IN CONTROL										
Tue 18 Dec 2001 Eff. Date 03/01/01 DETAILED ESTIMATS		0.5. Army Corps of Engineers PROJECT KISEA2: "Klasiamee River Plood Control - 95% Submirtel Estimate 15. Ploodway Control & Diversion Str	rps of Englim Liver Plood G fits Betimati Exol & Diver	eers ontrol - Cor & &lon Str	- Contract 6A-3					TIME 09:0 DETAIL PAGE	TINK 09:59439
15.03. Care a Diversion of Water			QUANTY UON CREW ID		OUTPUT MANNERS	1	·	BQUIPHET MATERIAL	TERIAL SU	SUBCONTR TOTAL CET	PAL CET
15.03.16.00	63. X. Electrica	Work			3 a a a a a a a a a a a a a a a a a a a		, , , , , , , , , , , , , , , , , , ,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		!
28. St		<16232 2480 > Wining device, receptacie, gnd fault intrpt, 15 amp, duplex	4.00 EA	BELEBLECT	85.5	0130	8.94	0.00	30.42	800	39.36
a TIN	ED <16234 0160 > W	Wiring device, concealed.switch, 120 voit, 20 aup, SPST	3.00 EA	RELEELECA	4.38	6,73	21.94	0.00	9.46	0.00	31,39
NII W	ED <16617 3000 > P	Poles, area lighting, 10' tall, round. 3" OD, ai. non-tapered	2.00 EA	BELERIS	2.88	2.0g	157	10.21	461.10	0.00	530.64
MIL R	(16627 3800 x 20 x	Poles, area Mighting, 20' tell, round, 3" OD, galv steel.	2.00 EA	BELER15	98.0	6.76	192,11	33.05	361.65 955	00.00	585.80 1.549
USR B	<16617	3306.> Light Pole Foundation	2.00 ER	Xechbris	0.75	3.6	227.45	39.13	243.80	0.00	510.38 1,347
08 80 0	<16865 0110 >	Control Panel	T:00 ER	8EL5819	90.0	30.12	\$14.58 ±.207	0.00	19080.00	0.00	19994.58
MIN	Eŭ <16611 1330 ≽ A	* Advomatic transfer switch, 100 anp, snoiced 600 voit, 1 poie	1.00 EA	esabelect	0.16	6.15	185.62	0.00	3047.50	0.00	3233.12 4,268
1 188 A	Kh <16181 0105 > 0	Ground Rod 3/4" x 20' Long ant, enclosed 600 volt, 3 pole	7.00 ER	EXLREDECT	0.60	2.00	66.33	0.00	132.50	0.00	192.83
N LIM	* <16181 5020 >	Grounding, 1sid in trench.	0.60 MLB	EGLERIS	0.35	8,43 6	348.96	0.00	1187.20	0.0	1436,16
N TIN	<16711 0500 >	Ejec a tel eltemi, 21x21x21-5" D hand holes, precast conc.	NS 00.1	EHURRS	0.31	7.99 8	313	36.08	318.00	0.00	590.92
WER REA	<16865 0125 >	Level Gage	4.00 EA	** RKLBR19	0.16	16.13	489.74	0.00	530.00	0.00	1019.74
The state of the s	7.86010-0c00-5	2' PVC Coated Galv Conduit	1260.00 LF	(MELBHLECT	2.27	554	13.27	0.00	8.48	0.00	21.75
The state of the s	Ft. <16012.0660-7	I WG Coated Galv Conduit	3200.00 LF	BELBELEGO	3.48	0.29	8.75	0.00	4.34	9:0	12.99
A Series Day of Ser 20	<16018 0530 >	3/4" DVC Coated Galy Conduit	40.00 LF	Bedeelect	8.40	0.20	319	9.00	3.71	9.0	9.74
MIL	Bb <16119 1500	> Wire, 600 voit. type THWN-THHM, copper, stranded, 1/0	0.50 NEF	F ESTRETECT	90.0	24.39	735.71	9.0	1113.00	9.00	1848,71
LIZH	<u></u>	<pre><li><li><li><li><li><li><li><li><li><li< td=""><td>0.30 MZ</td><td>0.30 MLF ERIEBLECT</td><td>0.08</td><td>12.35</td><td>372.40</td><td>900</td><td>275.60 109</td><td>00.00</td><td>548.00</td></li<></li></li></li></li></li></li></li></li></li></pre>	0.30 MZ	0.30 MLF ERIEBLECT	0.08	12.35	372.40	900	275.60 109	00.00	548.00
Labor id: naiota equip id: rg3978		Curzen	Currency in DOLLARS	<b>02</b> 2				CREW II	CREW ID: NAT97B	UPB ID: UPSTEA	JP97EA
t e de d	The same that the same of the	and a second or extended to a second	:								

34.73 136 1,828 66.09 367.98 229.58 91 1.83 5.95 7.66 125 1.35 54 2.69 836 171 LABOR ROUIDINT NATHRIAL SUBCONTR TOTAL CST TIME 09:59:39 UPB ID: UP97EA DETAIL PAGE . 6 ° 6.0 9.0 % ° 0.00 0.00 9.00 0.00 0.00 0.0 0 9.0 0.00 9.00 0.00 126.67 385 10.60 32 0.42 2,94 338 0.68 34.17 0.27 0.16 1.28 9.80 4.90 9.0 0.00 0.00 9.00 0.00 0.00 0,00 0.00 9.0 8.0 8.0 24.13 96 241.31 \$.15 46 385.06 73 31.92 1,769 2.59 2.43 2,070 1,206 233 3.3 319 g 0.93 37 36 808 8.8 2.8 0.80 20 90.0 6.14 2.00 ÷. 45 4 13.55 0.10 0.03 0.08 0.13 0.03 90.0 9.00 CUTPUT NAMERS 0.03 9.08 U.S. Army Coxps of Engineers
PROJECT KISGA1: Kissimmes River Flood Control - Contract GA-2
95% Submittal Estimate
15. Floodway Control & Diversion Str ... 0.15 26.25 7.34 0.13 31.25 31.25 15.63 11.63 10.00 36.25 32.50 25.00 27.78 8.13 estertect 0.30 MLF RELIBERACY 2.30 MLF BELBETECL SELEBILEC1 30.00 LP RELEGISCL BRLEKLECT BELEBLECT RELEKING RELEGIECT BELRELECT 42.00 EA BRLER20 QUANTY UCH CRRN IO 32.00 ER ERLERIS 10.00 EA RELERIS BELER 19 ZELER19 3.00 KR Currency in DOLLARS 85.00 LF 30.00 XF 50.00 ER 252.00 ER 90.00 LB 520.00 LP 30.00 LF 65.00 TP Conduit to 15' H, 2" dia, inci Conduit, direct buriat only, pvC aqued 40. 1" dia, w/coupling > Conduit to 15' H. 3/4" dia, incl couplings only, steel rigid gely > Conduit to 15' H, 1" dia, inci <16018 0580 > Condust to 15' H.1.5" dia, incl
opuplings only, steel rigid galv <16712 1020 > chnduit, direct burial only, PVC
squed 40, 3/4" dia, w/coupling Chante, direct burtal only, PVC spiced 40, 1.5° dia, w/coupling 0320 > Cable terms to 6007, #22-#10, sqrew type, 12 pt. term blocks Morrs Use for #14. 3 pr #20, MIL EL CIGILS 1250 > Mire, 600 VOLC, Cype IHME-THEN, COPPER. Stranded, #10 0920 > Mire, 600 volt. type remn-THHM, copper. solid, #14 MIL EN -16326 9100 > Pangiboardeld cir cht brir.15 Forephone cable, #22 ANG. -in conduit, 3. Dair NOTE: Use for 3 pr #20 <16153 0014 > Cable Termination #12 - Chile Termination #16 <16153 0013 > Cable Termination #8 <16153 0012 > Chblm Terminstion #6 3nd #10 <16018 0800 > <16712 1030 > <16712 1040 > 0540 <16153 0016 <16018 0520 <16119 <16153 <16018 CIV BG MIL BY THE PERSON RSM BIS KIL BL USR ST HIL BL XII R USR EL UBR EL USR EL MIE ST MIN BY MIL BÙ BOULP ID: RG397 15.63. Care a Diversion of Water Tue 18 Dec 2001 Eff. Date 03/01/01 DETAILED SETIMATE MABOR ID: MAT979

CREW ID: NAT97B

\$ 2 \$ 2

Stater course

According to the second	A. 180 P. S.									
Tug 18 Dec 2001 Mff. Daug 03/01/01 DETAILED ESTIMATE	en gestelle manger i ser meneralise	U.S. ATHV COX PROJECT KISGAL: Risermuse Ri 954 Studie	U.S. ATHY COUDS Of ENGINEERS Rissimmes River Plood Control 976 Submitted Estimate	Contract 62-3	2				TINE	5
	alle and the	SUDD AWARDERS OF	cracumay control a Diversion Str						DETAIL PAGE	PAGE 34
to.vo. dare & Diversion of Nater	-		· >-	OUTPUT MANHES	MANHER	LABOR	FOUTTHEATH	LAROR POSTERARM MARKETON		,
	<b></b>	P						PARTERIAL PARTERIAL BUBCO	SUBCONTR TO	TOTAL CBT
288	<16000 0001 >	Charrers antenne pole NyIs Inquides foundation, Ground rod, ground cable, chadult, etc.	1.50 EA BELERIE	\$ ° ° °	78.69 76	2,638	9.0	3180.40	0.00	5178.52
15.03.16.00;03.	b. Bmerger	Generator								
in ago	7				39.68	1176.70	9			
SANDAM SANDAM			1.00 KA BBLERS	9.0	9	1,553		24,486	80.0	19905.94
15.03.16.00.08.	15.03.16.00.08. Channel Improvements	pariway 867			2,590	100,756	6,480	123,236	0	230,453
16.03.16.00 06.	106. A. Power Lir	A. Power Linh Rolocation							andri.	
USR E	USR RL <16910 0005 > B	Boat Ramp Downstream 1-ph Unility Line Crossing	1.00 JOB ERLERIS	, c	46.60	1137.26	195.63	21.1612	0.00	3524.01
	de grand state state states con-	NOTE: PEACO QUOCE from Glades Electric Lake Electric 1-600-226-4025 Atth: Glann Streen			<b>:</b>	1 2 1	re Ch	2,893	٥	4,652
VSR RE		<pre>&lt;16310 0005 &gt; Boy 98 1-PK Utility Line Crossing Allowance</pre>	T'IQ QOB BECKKIE	9.01	1000,00	28431.57	4890.87	10600,00	0.0	43922.43
ga asn		88 631 3-FH Utility Line Grossing Allowance	1.00 JOB BELERIS	0.01		28431.57	4890.87	10660.00	80.0	43922.43
15.03.16.00.00.		B. Telephona Line Relocation					i		•	57,978
UBR R	<16711 D200	May 98 Sprint Fiber Cable	4.00 JOB	0.00	0.0	30354.00	0.00	10857.58	90.0	41211.58
ia red	<16711 0200	> Céx Bridge MCI Fiber Cable	4.00 dos	0.0	0.00	30354,00		10857.58	, 6.	41211.58
USR RU		<16711 0200 > Soridcon Fiber Beaccation Note: Price quote from Moridcon	#0£ 00.1	0.00		30000.00	9.00	33463.14	0.0	54,399
J.	Marining and state on addition	1949 Clare Avenus West Paim Reach. #1 33401 561-820-8349 Attn: Dale Frice							•	70.75
a aso	<16711 0200 >	Sk 631 Aprint Fiber Cable Allowance	4.66 JOB	0.00	0.00	30354.00 40,067	00.0	10857.58	00.0	41211.58 54,399
LABOR ID: NAT97B EQUIP ID: RO397B	- Sankki giğin i Sanko i i ve asıla	Chrzenov	Saellod at Vonerad				CHEN	CREW ID: NATY7B	UPB ID: UP97EA	W97EA
t i dibira ngamay badan meng mahammeng mengangan ading idi mendari i sasa	, J									
	of Warth or other	Arrel Garace and a compression of Africa compression and the Africa Compression and Africa	about delib materials are some as as as							

Sheet No.

Date: May 18, 2006 Date: Date:

STA. CONSULTANTS
Computed by: Z Brownson
Checked by:
Approved by:
PS1 Substructure Qty.xls

QUANTITIES FOR PSI SUBSTRUCT (Suith English GLEN

MUNNT)

SUBSTRUCTURE CONCRETE QUANTITIES

EL +25.0

	Length	Width / Th.	Depth ( Ht Number   Volume (R3)	Number	Volume (R³)	*Wolume	Yearente (DC)		(Journ torish water Manny)
								·Li	
	193 - 0.00	108 - 0.00	00'0 - 9	-	125064.0	4632.0	150	2 2 1	CONCRETE
-			ins Sol	BTOTALS	SUBTOTALS 125064.0	4632.0		Ú	<i>V</i> 01.
		Sandal Committee		ingy makini i	MINISTER OF STREET			Z E	at the topical and
	6 - 0.00	3 - 0.00	32 - 0.00	12	6912.0	256.0	150	K	
	i - 2:00	0 - 3.50	32 - 0.00	-24	-261.3	-9.7	35	}	
	48 - 0.00	4 - 0.00	32 - 0.00 32 - 0.00	- 7	6144.0	227.6	150	茶	THY - ZACH BROWN SON
	48 - 0.00	3 - 0.00	32 - 0.00 32 - 0.00	ოφ	13824.0 65.3	512.0 2.4	150 150	6.4	
	48 - 0.00	4 - 0.00	32 - 0.00	<b>,</b>	6144.0	227.6	150	460.8	
	10 - 5.00	2.0.50	32 - 0.00	ማላ	-32.7	-1.2	8 8	-2.5	
	15 - 0.00	3 - 0.00	32 - 0.00	10	2880.0	106.7	3 65	216.0	
	48 - 0.00	4 - 0.00	32 - 0.00	-	6144.0	227.6	150	460.8	
			ns	SUBTOTALS	43824.4	1623.1		3,286.8	1001
termed	NTAKE BAYS EL-16.0 TO EL-6.0 (to bottom of intermediate slab) ************************************	weappiblichten			Mark and the second				COAM WORL
or Walls North Wall (separates intake basin from main bldg) Subtract infake openings	177 - 0.00	3 - 0.00	10 - 0.00	- ıç	5310.0	196.7	150	398.3	4 SAND FULL
	57 - 0.00	4 - 0.00	10 - 0.00		2280.0	84.4	<u>8</u>	171.0	·
	177 - 0.00 57 - 0.00	3 - 0.00	10 - 0.00	, <b>-</b>	5310.0 2280.0	196.7 84.4	हे हे	398.3	रि प्रवास्त
•									

To SAND FILL
TO FOLLOW MONORY

441.0

32

217.8

5880.0

4

10 - 0.00

3 - 0.00

49 - 0.00

39.3

150

19.4

524.3

4

3 - 7.69

2 - 0.00

18 - 0.00

Additional Interior Wall (either side of 250 cfs pipe) Wall (top of fill conc EL-9,641)

Pump basın dividers (N-S)

Interior Walls

Additional Intenor Wall (either side of 500 cfs pipe) Wall (top of fill conc EL-7.521)

1,365.2

674.2

SUBTOTALS

16.4

150

2.

219.0 18203.3

i - 6.25

2 - 0.00

18 - 0.00

Sheet No.
Job No. 1730009
Structure information
Pump Structure Concrete

1,240.9 74.3 2,607.8 110.3 27.0 0.0 861.2 -201.8 11.2 726.2 -86.4 192.0 27.0 534,4 -89.1 3.7 544.7 -32.4 99.6 42.8 99.6 42.8 30 150 150 쨚 55 35 35 35 35 35 35 36 37 38 38 38 38 38 354.4 612.8 13.3 36.7 0.0 425.3 -99.7 5.5 358.6 42.7 1287.8 13.3 263.9 44.0 1.8 1.8 269.0 -16.0 49.2 21.1 21.1 21.1 54.4 16545.0 990.0 0.0 11483.0 -2691.0 149.5 9682.7 -1152.0 2560.0 1327.5 570.0 1327.5 570.0 1470.0 9570.0 360.0 360.0 7125.9 -1188.0 49.5 7263.1 -432.0 34770.7 SUBTOTALS SUBTOTALS 4 4 242444 2 - 6.00 10 - 0.00 5 - 9.00 5 - 9.00 8 - 5.75 6 - 0.00 2 - 6.00 2 - 6.00 2 - 6.00 2 - 6.00 2 - 6.00 2 - 6.00 2 - 6.00 10 - 0.00 4 - 6.00 4 - 6.00 6 - 4.31 4 - 6.00 2 - 6.00 2 - 0.00 3 - 0.00 3 - 0.00 4 - 0.00 4 - 0.00 33 - 0.00 18 - 0.00 1 - 0.00 33 - 0.00 4 - 0.00 2 - 0.00 0.00 33 - 0.00 33 - 0.00 12 - 0.00 0 - 6.00 33 - 0.00 6 - 0.00 4 - 0.00 177 - 0.00 57 - 0.00 177 - 0.00 57 - 0.00 33 - 0.00 13 - 0.00 13 - 0.00 13 - 0.00 17 - 3.63 12 - 0.00 16 - 0.00 18 - 0.00 18 - 0.00 49 - 0.00 29 - 0.00 10 - 9.56 11 - 0.00 11 - 0.00 17 - 3.65 8 - 0.00 12 - 0.00 INTAKE: BAYS: EL-6.0:TO EL-3.5/lassumes:slab:thloki Exterior Walls North Wall South Wall South Wall East Wall Additional between North end and diffuser intake Subtract elbow volume Additional between North end and diffuser intake Additional Interior Wall (either side of 250 cfs pumps) Additional Interior Wall (either side of 500 cfs pumps) Diffuser chamber total (EL-16.0 to EL-6.0)
Subtract intake cone volume
Add diffuser wall
Elbow chamber total (EL-16.0 to EL-7.521)
Subtract elbow volume Elbow chamber total (EL-16.0 to EL-9.641) Diffuser chamber total (EL-16.0 to EL-6.0) Subtract intake cone volume Interior Walls Pump basin dividers Slab above intake Slab TOC EL-3.5 Additional Divider Wall Wall Add diffuser wall 500 CFS Bay Wali

Date: May 18, 2006 Date:

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Sheet No. 1730009 Job No. 1730009 Structure Information Pump Structure Concrete

> Date: May 18, 2006 Date: Date:

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Computed by: Z Brownson
Checked by:
Approved by:
PS1 Substructure Qty xls

INTAKE BAYS EL.315 TO EL-7.0 (to bottom of pipe gallery slab) (IV to be properties of 3,461.9 18.5 167.4 59.4 502.2 129.6 259.2 54.0 367.2 5,050.4 -16.2 -28.8 -1.6 680.4 32.4 234.9 -32.4 680.4 -16.2 -28.8 234.9 27.9 99.9 55.8 2,197.1 311.9 418.2 418.2 478.6 113.4 463.1 113.4 2 22 22 8 8 8 8 8 8 8 50 30 8 8 8 8 18 8 150 8888 55 248.0 64.0 128.0 26.7 181.3 13.8 49.3 27.6 336.0 -16.0 116.0 -16.0 336.0 -8.0 -14.2 1085.0 2494.0 -8.0 -14.2 -0.8 9.1 82.7 29.3 154.0 206.5 88.7 206.5 88.7 228.7 56.0 56.0 372.0 1332.0 744.0 46158.0 9072.0 432.0 3132.0 432.0 9072.0 -216.0 -384.0 6695.0 1728.0 3456.0 720.0 4896.0 246.0 2232.0 792.0 29295.0 67338.0 -216.0 -384.0 -21.0 66717.0 4158.0 6174.0 1512.0 1512.0 5575.5 2394.0 5575.5 2394.0 SUBTOTALS SUBTOTALS SUBTOTALS - ウィー・マウー 0 4 4 4 **0** - ツット 4 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 6 - 0.00 8 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 3 - 0.00 3 - 0.00 3 - 0.00 10 - 6.00 10 - 6.00 10 - 6.00 10 - 6.00 - 6.00 10 - 6.00 10 - 6.00 10 - 6.00 2 3 - 0.00 2 - 0.00 2 - 0.00 2 - 0.00 2 - 0.00 2 - 0.00 2 - 0.00 3 - 0.00 i - 6.00 3 - 0.00 2 - 0.00 37 - 0.00 6 - 0.00 8 - 0.00 - - 0.00 3.0.00 0.00 0.00 0.00 0.00 0.00 3 - 0.00 2 - 0.00 2 - 0.00 thickness 3.0.1 258 - 0.00 6 - 0.00 8 - 0.00 i - 0.00 252 - 0.00 6 - 0.00 87 - 0.00 12 - 0.00 252 - 0.00 6 - 0.00 8 - 0.00 87 - 0.00 62 - 0.00 18 - 0.00 36 - 0.00 7 - 6.00 25 - 6.00 15 - 6.00 27 - 9.00 31 - 0.00 13 - 8.00 62 - 0.00 33 - 0.00 18 - 0.00 0.00 177 - 0.00 57 - 0.00 177 - 0.00 57 - 0.00 33 - 0.00 49 - 0.00 \$ PPEGALLERY SEAB EL+7.0.TO EL+10.0 (assumes slab PIPE GALLERY: EL+10,0"TO EL+22,0"(to bottom of oper Exterior Walls Additional Interior Wall (either side of 500 cfs pumps) Additional Interior Wall (either side of 250 cfs pumps) Subtract 250 cts pipe penetrations (6' diam) Subtract 500 cts pipe penetrations (8' diam) East Wall Subtract 250 ofs pipe penetrations (6' diam) Subtract 500 ofs pipe penetrations (8' diam) Subtract for auxiliary pipe penetrations Gallery entrance wall (south side) Continuous slab TOC EL +10.0 West side of auxillary pumps South side of auxillary pumps Repeatable pump separation walls South East Corner Interior Walls North Wall Subtract access openings Subtract access openings Main divider (N to S) Short wall (N to S) Hallway wall (N to S) Short wall (E to W) Short wall (E to W) Pump basin dividers Additional Divider Wall Stairwell wall Wall (E to W) North Wall West Wall South Wall East Wall West Wall South Wall interior Walls interior Walls Wall ĭ Kaï Wall

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Job No. 1730009
Structure liformation
Pump Structure Concrete
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Date: May 18, 2006 Date: Date:

C. Aced by, Z Brownson Checked by: Approved by: PS1 Substructure Qty.xls

OPERATING DECK SLAB EL+22.01O EL+25.0 (assumes slab thickness 3.0 ft):	es slab thickness	3.0.40	*:		77		111	
Subtract pump housing opening (14-2 diameter)	258 - 0.00 157 - 7 En	87 - 0.00		_	67338.0	2494.0	150	5,050.4
Subtract pipe gallery equipment access	10 - 0.00	10 - 0.00	000	4 .	-1891.5	-70.1	55	-141.9
Subtract auxillary shaft opening	29 - 4.00	4 - 0.00	9.0.6	7 "	300.0	÷ 5	<u>8</u>	-22,5
Subtract stairwell	17 - 0.00	17 - 6.00	3 - 0 00	7 7	-302.0	15.0	<u> </u>	-26.4
				7	0.760		3	699
SERVICE BRIDGE TOC EL+16,0 (114-14) (114-14)		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	าร	SUBTOTALS	63902.0	2366.7		4,792,7
Slabs					mirii niya inaanii	-idebjelagebb		
Approach slab West	20 - 0.00	18 - 0.00	- 6	,				
Approach slab East	20 - 0:00	28 - 0.00	00.0	7 (	1440.0	53.3	8	108.0
Bridge slabs	18 - 0.00	33 - 0.00	2 - 0.00	A 15	5040.0	83.0	<u>දි</u>	168.0
Hash collection pad	10 - 0.00	33 - 0.00	2 - 0.00	,	660.0	24.4	3 5	445.5
Guardrail						:	3	e t
Long wails	100	4						
Short wall at trash pad	9 - 2.00	3 - 6.00	0 - 10.00	2	1067.5	39.5	8 5	80.1
Stair Platforms					<u>.</u>	2	3	7.0
bottom platform	•		,					
top platform	4 - 0.00	4 - 4 - 0.00 - 0.00	2 - 0.00	61.6	3.2	2.4	₹ 2	4.8
Training Play Walkway				4	3	4.7	3	8,
Slab spanning intake bays TOC +16.0	000							
Subtract piers	3-0.00	909	2 - 0.00	4 ;	924.0	34.2	33	69.3
			2 - 0.00	ZI-	-252.0	6. 6.3	<u>당</u>	-18.9
ENTRANCE RAMPS	2000		ns	SUBTOTALS	12174.2	450.9		913.1
At Pipe Gallery		in Market Miller		di idan'i a		HIM WHEE		
Slab (EL+17.0 to EL+10.0)	70 - 0.00	000-61	000		00000	- ;;		
Walls (maintain at EL+18.0)	70 - 0.00	1 - 6.00	4 - 6.00	- 8	945.0	35.0	3 2 2	199.5
						}	3	e S
AT Operation Floor								
Slab (EL+20.0 to EL+25.0)	20 - 0:00	17 - 0.00	0 - 6.00		425.0	187	5	3
wells (maintain 1 toot above slab)	50 - 0.00	1 - 6.00	0.00	. 2	150.0	5.6	<u>8</u>	- - - - - - - - - - - - - - - - - - -
			ö	SHETOTAL S	0 0077			
MISCELLANEOUS					4.000.0	154.8	100	313.6
Slab TOC +26 o								
	72 - 0.00	9 - 6.00	3 - 0.00	~	4104.0	152.0	150	307.8
Pipe Support								
Subtract 250rfs pine ponetroling (EL+10.0)	10 - 0.00	10 - 0.00	1 - 0.00	4	400.0	14.8	150	30.0
Subtract 500cfs pipe penetration	9 000	00.00	1 - 0.00	?	-72.0	-2.7	8	-5.4
Erosion control stab under length of pipe (external)	210 - 0.00	10 - 0.00	000-	۰ ب	-128.0	4.7	8 :	-9.8
Gonzale thank hank				·	2.00		3	630.0
Pipe support piers along diagonal on Awally	00.00	10 - 0.00	00.0 - 6	4	960.0	35.6	150	72.0
Pipe support piers along diagonal run (slab)		10 - 0.00	0.00	ഗധ	400.0	8.5	35 25 25	30.0
Exterior Stair Landing Pads	•	1		,	2	3:33	8	43.0
	00.0 - 6	2 - 0:00	i - 0.00	က	125.0	4.6	150	9.4
Stairs From Operation Deck to Pipe Gallery	20 - 0.00	7 - 6.00	3 - 0.00	-	443.8	18.4	2	0
5000ts Pum Engine Englation					2	į	3	53.3
250cts Pump Engine Foundation 250cts Pump Engine Foundation	9 0.00	18 - 0.00	3 - 0.00	210	648.0	24.0	150	48.6
			200	J	400.0	χ ₂	051	36.0
			SU	SUBTOTALS	16360.8	606.0		1,227.1

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Job No. 1730009
Structure information
Pump Structure Concrete
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Date: May 16, 2006 Date:

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A STATE OF THE PARTY AND THE P									
Stem neight	150 - 0.00	000	4 - 0.00	-	0.009	22.2	150	45.0	
Footing slab	150 - 0.00	2 - 0.00	00.0		300.0	11.1	3 55	22.5	
Footing below stab	150 - 0.00	00.00	2 - 0.00		300.0	11.1	5	22.5	
Trench									
siab	8 - 0.00	5 - 0.00	0.00		40.0	5,5	150	3.0	
Walls	8 - 0.00	00.0	3 - 0.00	~	48.0	1.8	150	3.6	
Storage Area									
Slab	122 - 6.00	38 • 0.00	j • 0.00	**	4855.0	1724	150	340 +	
Walls	122 - 6.00	000	4 - 0.00	۰	980 0	26.3	35	73.5	_
Walls	36 - 0.00	i - 0.00	4 - 0.00	. 0	288.0	10.7	3 35	21.6	
			- <del>v</del>	SHATOTRIS	7944.0	247.4	•	9	

FOUNDATION  WALL INTAKE ZONE INTAKE BAYS EL-16.0 TO EL-6.0 (to bottom of intermediate slab)  SLAB FILL CONCRETE (intake pipe formation)  SOTH INTAKE BAYS EL-6.0 TO EL-3.5 (assumes slab thickness 2.5 ft)  WALL INTAKE BAYS EL-6.0 TO EL-7.0 (to bottom of pipe gallery slab)  SLAB PIPE GALLERY SLAB EL-7.0 TO EL-10.0 (assumes slab thickness 3.0 ft)  WINUS PIPE GALLERY EL-10.0 TO EL-22.0 (to bottom of operating deck slab)  SLAB OPERATING DECK SLAB EL-22.0 TO EL-26.0 (assumes slab thickness 3.0 ft)  SAB OPERATING DECK SLAB EL-22.0 TO EL-26.0 (assumes slab thickness 3.0 ft)  SAB OPERATING DECK SLAB EL-22.0 TO EL-26.0 (assumes slab thickness 3.0 ft)  SAB OPERATING DECK SLAB EL-22.0 TO EL-26.0 (assumes slab thickness 3.0 ft)  SAB OPERATING DECK SLAB EL-22.0 TO EL-26.0 (assumes slab thickness 3.0 ft)  SAB OPERATING DECK SLAB EL-22.0 TO EL-26.0 (assumes slab thickness 3.0 ft)  SAB OPERATING DECK SLAB EL-22.0 TO EL-26.0 (assumes slab thickness 3.0 ft)
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3.0 ft)
TOTALS 484406.5

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Approved by:
PS1 Substructure Qty.xls

SUBSTRUCTURE REINFORCING QUANTITIES

Date: May 18, 2006 Date: Date:

Sheet No. Job No. 1730009
Structure Information

1 of 1

Pump Structure Concrete

Description	Concrete Vol. (ft³)	Reinforcing (% by Vol)	Reinforcing Weight (pcf)	Weight (Short ton)	
SUMMARY: REINFORCING QUANTITIES					<b>2</b> 777
FOUNDATION	125064.0	0.50%	490.0	153.2	, .
INTAKE ZONE	43824.4	0.50%	490.0	53.7	
INTAKE BAYS EL-16.0 TO EL-6.0 (to bottom of intermediate slab)	18203.3	0.50%	490.0	22.3	
FILL CONCRETE (Intake pipe formation)	34770.7	0.50%	490.0	42.6	
INTAKE BAYS EL-6.0 TO EL-3.5 (assumes slab thickness 2.5 ft)	16545.0	0.50%	490.0	20.3	WALLS STON
INTAKE BAYS EL-3.5 TO EL+7.0 (to bottom of pipe gallery slab)	29295.0	0.50%	490.0	35.9	5
PIPE GALLERY SLAB EL+7.0 TO EL+10.0 (assumes slab thickness 3.0 ft)	66717.0	0.50%	490.0	81.7	
PIPE GALLERY EL+10.0 TO EL+22.0 (to bottom of operating deck slab)	46158.0	0.50%	490.0	56.5	
OPERATING DECK SLAB EL+22.0 TO EL+25.0 (assumes slab thickness 3.0 ft)	63902.0	0.50%	490.0	78.3	
SERVICE BRIDGE TOC EL+16.0	12174.2	0.50%	490.0	14.9	
ENTRANCE RAMPS	4180.0	0.50%	490.0	5.1	ą
MISCELLANEOUS	16360.8	0.50%	490.0	20.0	でできず
FUEL OIL STORAGE AREA	7211.0	0.50%	490.0	8.8	MART OF SOL
					•
			· · · · · · · · · · · · · · · · · · ·		
TOTAL	484405.5			593.4	

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Date: May 18, 2006 Date:

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Structure Information Pump Structure Concrete

Sheet No. Job No. 1730009

	ANTITIES
	SUBSTRUCTURE FINISHING QUANTITIES
1 Substructure Qty.xls	SUBSTRUCTUR

Description	Length (ff) – (in)	Width   (ft) = (in)	Number	Area (ff.)
FOUNDATION				
Continuous base slab TOC EL -16.0	193 - 0.00	108 - 0.00	1.0	20,844.0
			SUBTOTAL	20,844.0
FILL CONCRETE (Intake pipe formation)				
Top of fill concrete (vertical pipe location)	33 - 0.00	18 - 0.00	4.0	2,376.0
Subtract 250cfs pipe area	6 - 0.00	00.0 - 9	-2.0	-72.0
Subtract 500cfs pipe area	8 - 0.00	8 - 0.00	-2.0	-128.0
			SUBTOTAL	2,176.0
INTAKE BAYS EL-6.0 TO EL-3.5 (assumes slab thickness 2.5 ft)	ss 2.5 ft) 🔤 🔛			
Slab above intake Slab TOC EL-3.5	29 - 0.00	33 - 0.00	4.0	3,828.0
			SUBTOTAL	3.828.0
PIRE GALLERY SLAB EL+7.0 TO EL+10:0 (assumes slab thickness 3.0 ft)	ab thickness 3.0 f			
Continuous stab TOC EL +10.0	258 - 0.00	87 - 0.00	1.0	22,446.0
Subtract 250 cfs pipe penetrations (6' diam)	00.0 - 9	00.0 - 9	-2.0	-72.0
Subtract 500 cfs pipe penetrations (8' diam)	8 - 0.00	8 - 0.00	-2.0	-128.0
Subtract for auxillary pipe penetrations	1 - 0.00	1 0.00	-7.0	-7.0
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SUBTOTAL	22,239.0
OPERATING DECK SLAB EL 122 0 TO EL 125 0 (assumes slab thickness 3.0 ft)	es slab thickness	3.0 ft)		
Continuous slab TOC EL +25.0	258 - 0.00	87 - 0.00	1.0	22,446.0
Subtract pump housing opening (14-2 diameter)	157 - 7.50	1 - 0.00	0.4	-630.5
Subtract pipe gallery equipment access	10 - 0.00	10 - 0.00	-2.0	-200.0
Subtract auxillary shaft opening	29 - 4.00	4 - 0.00	-1.0	-117.3
Subtract stairwell	17 - 0.00	17 - 6.00	-1.0	-297.5
			SUBTOTAL	21,200.7

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Date: May 18, 2006 Date: Date:

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Pump Structure Concrete

Sheet No. Job No. 1730009 Structure Information

SERVICE BRIDGE TOCIEL 16.0 MINIMUM MINIMUM				
Slabs Approach slab West Approach slab East Bridge slabs Trash collection pad	20 - 0.00 20 - 0.00 185 - 0.00 40 - 0.00	18 - 0.00 28 - 0.00 18 - 0.00 10 - 0.00	0,1,1,1	360.0 560.0 3,330.0 400.0
Stair Platforms bottom platform top platform	4 - 0.00	4 - 0.00	2.0 2.0	32.0 32.0
Training Pier Walkway Slab spanning intake bays TOC +16.0	149 - 0.00	3 - 6.00	1.0	521.5
ENTRANCERAMPSIII		2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SUBTOTAL	5,235.5
At Pipe Gallery Slab (EL+17.0 to EL+10.0)	70 - 0.00	19 - 0.00	1.0	1,330.0
AT Operation Floor Slab (EL+20.0 to EL+25.0)	50 - 0.00	17 - 0.00	1.0	850.0
WISCELLANEOLISHICHER			SUBTOTAL	2,180.0
Slab Inder I of wer Enclosure				
Slab TOC +25.0	72 - 0.00	9 - 6.00	2.0	1,368.0
Pipe Support Pad under elbow inside building (EL+10.0) Subtract 250cfs pipe penetration Subtract 500cfs pipe penetration Erosion control slab under length of pipe (external) *does not include horizontal length at top of dam	10 - 0.00 6 - 0.00 8 - 0.00 210 - 0.00	10 - 0.00 6 - 0.00 8 - 0.00 10 - 0.00	4.0 -2.0 -2.0 4.0	400.0 -72.0 -128.0 8,400.0
Exterior Stair Landing Pads Stairs From Operation Deck to Pipe Gallery 500cfs Pump Engine Foundation 250cfs Pump Engine Foundation	5 - 0.00 20 - 0.00 6 - 0.00 5 - 0.00	5 - 0.00 7 - 6.00 18 - 0.00 16 - 0.00	5.0 2.0 2.0	125.0 147.9 216.0 160.0
			SUBTOTAL	10,616.9

ST EY CONSULTANTS
Computed by: Z Brownson
Checked by:
Approved by:
PS1 Substructure Qty.xls

EY CONSULTANTS Imputed by: Z Brownson secked by: proved by:	Date: May 18, 2006 Date:	2006			Sheet No. Job No. 1730009 Structure Information Pump Structure Concrete
FUEL OIL STORAGE AREA IIII THE BEAT OF STORAGE AREA III THE BEAT OF STORAGE AREA III THE BEAT OF STORAGE AND STORAGE AREA III THE BEAT OF STORAGE AND STORAG				0.10 A	) ) )
rast riid Ketaining Wall Footing slab	150 - 0.00	2 - 0.00	1.0	300.0	
Trench slab	00.0 - 8	5 - 0.00	1.0	40.0	
Storage Area Slab	122 - 6.00	38 - 0.00	1.0	4,655.0	
			SUBTOTAL	4.995.0	

Description			Area (ft²)
SUMMARY: FINISHING QUANTITIES			
FOUNDATION		7	20.844.0
FILL CONCRETE (Intake pipe formation)			2,176.0
INTAKE BAYS EL-6.0 TO EL-3.5 (assumes slab thickness 2.5 ft)	2.5 ft)		3,828.0
PIPE GALLERY SLAB EL+7.0 TO EL+10.0 (assumes slab thickness 3.0 ft)	hickness 3.0 ft)	8	22,239.0
OPERATING DECK SLAB EL+22.0 TO EL+25.0 (assumes slab thickness 3.0 ft)	 slab thickness 3.0 ft)	N	21,200.7
SERVICE BRIDGE TOC EL+16.0			5,235.5
ENTRANCE RAMPS			2,180.0
MISCELLANEOUS			10,616.9
FUEL OIL STORAGE AREA		•	4,995.0
		TOTAL	93315.1

STAL ONSULTANTS
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Date: May 10, 2006 Date:

SUBSTRUCTURE SAND FILL QUANTITIES

Description	Length (ft) - (ln)	Width ( Th. (ft) = (in)	─ Width ( Th.   □ Depth ) Ht.     N (tt) = (in)     □ (tt) = (in)	Number Volume (ft	/olume (ft)	Volume (yd.)
Cells above intake EL-3,5 to EL+7,0 Cells next to 250 cfs pipe EL-9,641 to EL+7,0 Cells next to 500 cfs pipe EL-7,521 to EL+7,0	29 - 0.00 18 - 0.00 18 - 0.00	33 - 0.00 5 - 6.00	10 - 6.00 15 - 7.69 14 - 6.25	444	40194.0 6193.8 5750.3	1488.7 229.4 213.0
From EL+10.0 to EL+22.0 cells near main haliwav cells near pipes cell near auxillary pipes cell near auxillary pipes cell near stairwell cell near stairwell	25 - 6.00 18 - 0.00 33 - 0.00 13 - 8.00 27 - 9.00 27 - 9.00	12 - 0.00 5 - 6.00 26 - 0.00 60 - 0.00 11 - 0.00	12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00	यं यं ≔ ≔ स स	14688.0 4752.0 10296.0 9840.0 3663.0 5328.0	544.0 176.0 381.3 364.4 135.7
				TOTALS	100705.2	3729.8

STAL CONSULTANTS
Computed by: Z Brownson
Checked by:
Approved by:

Date: May 18, 2006 Date: Date:

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AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	3	3	3	3	3	3	3	3	3	3	3			- E			ı
AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	3	3	3	3	3	3	3	3	3	3	3						Ŀ
ZETP QUANTITIES	ZETP QUANTITIES	ZETP QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	3	3	3	3	3	3	3	3	3	3	3						ı
ZETP QUANTITIES	ZETP QUANTITIES	ZETP QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	AETE QUANTITIES	3	3	3	3	3	3	3	3	3	3	3						1

Description	Length	Width / Th.	Depth / Ht	Number	Area (ff)
FOUNDATION AND THE PROPERTY OF					
Continuous base slab TOC EL -16.0	193 - 0.00		6 - 0.00	2	2316.0
	108 - 0.00		00.0 - 9	8	1296.0
SUCTION BASIN		FOU	FOUNDATION SOG SUBTOTAL	UBTOTAL	3612.0
Training Pler (EL-16.0 to EL+16.0)					
length width	3 - 0.00		32 - 0.00 32 - 0.00	2 2	4608.0
East Wall (EL-16.0 to EL+16.0)	3				
end	48 - 0.00 4 - 0.00	-	32 - 0.00 32 - 0.00	cz :-	3072.0 128.0
Interior Divider Walls (EL-16.0 to EL+16.0)			-		
. rengin	3 - 0.00		32 - 0.00 32 - 0.00	ထက	9216.0 288.0
Auxillary Basın Walls (EL-16.0 to EL+16.0)					
. rengin	48 - 0.00		32 - 0.00	2 -	3072.0
North end wall length (end qty in other walls)	10 - 6.00		32 - 0.00	- 8	672.0
trash rake wall length trash rake walf end	3 - 0.00 3 - 0.00		32 - 0.00	4 0	1920.0 192.0
West Wall (EL-16.0 to EL+16.0)					
length	48 - 0.00		32 - 0.00	8	3072.0
O I A	4 - 0.00		32 - 0.00		128.0
NTAKE BAYS Eli-14 B.TO H. & 0 (to hottom of intermediate alak)	40		WALLS	WALLS SUBTOTAL	28800.0
Exterior Walls	diate stab)				
North Wall length	177 - 0,00		10 - 0.00	8	3540.0
Subtract Infake openings North Wall ends	24 - 0.00		10 - 0.00	우	-2400.0
West Wall length	67 - 0.00		10 - 0.00	2 %	1140.0
Vest wall ends South Vvall length	4 0.00		10 0.00	010	3540.0
East wall length East wall ends	57 0.00		10 - 0.00	. ~ ~	1140.0
Interior Walls					3
Fump basin dividers (N-S) length	49 - 0,00		10 - 0.00	80	3920.0
Additional Interior Well (either side of 250 cfs pipe) Wall (top of fill conc EL-9.641) length	18 - 0.00		3 - 7.69	ω	524.3
Additional Internor Wall (either side of 500 cts pipe) Wall (top of fill conc EL-7.521) length	18 - 0.00		- 6.25	∞	219.0
			WALLS	WALLS SUBTOTAL	12083.3

Sheet No.
Job No. 1730009
Structure Information
Pump Structure Concrete

STA ONSULTANTS
Compliance by:
Approved by:
PS1 Substructure Qty.xis

Date: May 10, 2006 Date:

250 CFS Bav					
side wall at front	15 - 6.00		10 - 0 00	4	620.0
side wall at middle	19 - 9.60		10 - 000	. 4	782.0
front wall at middle	14 - 0.00		200	۰,	164.0
back wall at middle	14 - 0.00		000		2 2
side wall at back	15 - 720		200	۷.	2 6
divider wall	41.720		70.4		0.00
suction cone ton	2000		2000	4 (	0.000
pipe elbow diameter (average circumference)	15.100		00.0	N (	280.0
			3	4	2007
500 CFS Bay					
side wall at front	17 - 7.20	-	10 - 010	7	0 802
side wall at middle	14 - 9.60		10.00	. 4	2000
front wall at middle	18 - 600		000-6		44.0
back wall at middle	18 - 600		900	N C	0.11.0
side wait at back	20.7.00		3 6	۷.	222.0
divider wall	27 - 170		9-6.00	4	400.4
Strotion cope to	27.70		00.9	N	347.6
bibe elbow diameter (average circumference)	10 - 0.00		18 - 6.00	~ 0	555.0
			11 • 7.20	N	429.4
			S I JAW	WALLSLIBTOTAL	8644.2
INTAKE BAYS EL-6.0 TO EL-3.5 (assumes slab thickness 2.5 ft)	ss 2.5 ft)		The will be be the state of the		
Exterior Walls					
North Wall length	177 - 0.00		2 - 6.00	84	885.0
west wall length	27 - 0.00		2 - 6.00	8	285.0
West Wall ends	4 - 0.00		2 - 6.00	8	20.0
South Wall length	177 - 0.00		2 • 6.00	ĸ	885.0
East Wall ends	00.0		2 - 6.00	~ ~	285.0
	200			N	20.0
Interior Walls					
Pump basin dividers length	49 - 0.00		2 - 6.00	ω	980.0
Additional Internative (Med) (either eight of 250 etc.					
Wall	18 - 0.00		2 - 6.00	w	360.0
Additional interior Wall (either side of 500 cts pumps) Wall	18 - 0.00		2 - 6.00	∞	360.0
Additional Divider Wall	,				
Wall	33 - 0.00		2 - 6.00	80	660.0
			9	1	
Slab above intake no side forms necessary, walls form slab			WALLS	WALLS SUBIOIAL	4/46.0
	•				
Slab above intake Slab TOC EL-3.5 elevated forms Slab TOC EL-3.5 elevated forms	15 - 6.00	24 - 0.00 24 - 0.00		8 8	744.0 844.8
		ĬĬ.	ELEVATED OF AB CLIBTOTAL	10000	

Sheet No. 1730009
Job No. 1730009
Structure Information
Pump Structure Concrete

CONSULTANTS
Conjugate by: Z Brownson

Canh. ...d bv: Z Brownson Checked bv: Approved bv: PS1 Substructure Qtv.xis

Date: May . o, 2008 Date: Date:

3717.0 1197.0 84.0 3717.0 1197.0 84.0 1548.0 522.0 240.0 240.0 84.0 1650.0 1296.0 -200.0 -200.0 6048.0 216.0 -144.0 1872.0 72.0 -72.0 -72.0 -128.0 144.0 192.0 4116.0 1512.0 1512.0 2772.0 2634.0 WALLS SUBTOTAL SOG SUBTOTAL ELEVATED SLAB SUBTOTAL -4444 00.6.00 00.6.00 00.6.00 00.6.00 00.6.00 10 - 6.00 10 - 6.00 10 - 6.00 10 - 6.00 33 - 0.00 18 - 0.00 10 - 0.00 1 - 0.00 PIPE GALLERY:EL÷10.0 TO EL+22.0 (to bottom of operating deck slab) Exterior Walls 177 - 0.00 57 - 0.00 4 - 0.00 177 - 0.00 57 - 0.00 258 - 0.00 87 - 0.00 10 - 0.00 10 - 0.00 1 - 0.00 262 - 0.00 3 - 0.00 78 - 0.00 3 - 0.00 12 - 0.00 3 - 0.00 3 - 0.00 8 - 0.00 8 - 0.00 8 - 0.00 8 - 0.00 8 - 0.00 50 - 0.00 18 - 0.00 10 - 0.00 1 - 0.00 49 - 0.00 18 - 0.00 18 - 0.00 33 - 0,00 PE GALLERY SLAB EL+7:0:TO EL+10:0 (assumes state Continuous state TOC EL +10:0 length State width Add 250 cfs opening forms Add 500 cfs opening forms elevated forms elevated forms Subtract 250 cfs pipe penetrations (6' diam) Subtract 500 cfs pipe penetrations (8' diam) Subtract for auxillary pipe penetrations Additional Interior Wall (either side of 250 cfs pumps) Additional Interior Wall (either side of 500 cfs pumps) West Well chair organ
Subtract access openings
South Wall length
South Wall length
Subtract 250 cts pipe penetrations (6' diam)
Subtract 500 cts pipe penetrations (8' diam)
Add 250 cts blockout forms
Add 500 cts blockout forms
East Wall Pump basın dividers length Add auxillary opening forms North Wall length North Wall ends Subtract access openings West Wall length Additional Divider Wall Wall iterior Walls Wail Wall

Sheet No.
Job No. 1730009
Structure Information
Pump Structure Concrete

ST CONSULTANTS
Co. d by: Z Brownson
Checked by:
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PS1 Substructure QIV.XIS

328.0 1488.0 38.0 792.0 96.0	4464.0 108.0 1728.0 3456.0 192.0 720.0 96.0 4896.0	372.0 24.0 1332.0 744.0 24.0 372.0	37184.0	1648.0 522.0 532.0 93.0 93.0 45.0 120.0 176.0	3065.0	3936.0 18.0 36.0 1122.0 1008.0 3588.0 1440.0 1627.5 1527.5 1986.3 35.0 -100.0 -117.3 -297.5 130.0	13093.4
N W - W 4	დ ო თ თ თ თ 4 <del>რ</del>	0 4 0 0	WALLS SUBTOTAL	00400400	SOG SUBTOTAL	संवय-व्यवचा-स्न्पेर्र्व	UBTOTAL
12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00	22 - 0.00 22 - 0.00 22 - 0.00 22 - 0.00 22 - 0.00 23 - 0.00 24 - 0.00 25 - 0.00	12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00 12 - 0.00	WALLS	88888888888888888888888888888888888888	8008		ELEVATED SLAB SUBTOTAL
			3.0 #)			16 - 0.00 16 - 0.00 17 - 0.00 18 - 0.00 18 - 0.00 19 - 0.00 10 - 0.00 10 - 0.00 11 - 0.00 12 - 0.00 13 - 0.00 14 - 0.00 15 - 0.00 16 - 0.00 17 - 0.00 17 - 0.00 17 - 0.00 17 - 0.00 18 - 0.00 19 - 0.00 10 - 0.00 11 - 0.00 11 - 0.00 12 - 0.00 13 - 0.00 14 - 0.00 15 - 0.00 16 - 0.00 17 - 0.00 18 - 0.00 19 - 0.00 10 - 0.00	1
13 - 8.00 62 - 0.00 3 - 0.00 33 - 0.00 2 - 0.00	62 - 0.00 3 - 0.00 18 - 0.00 36 - 0.00 2 - 0.00 25 - 6.00	15 - 6.00 2 - 0.00 27 - 9.00 31 - 0.00 2 - 0.00 15 - 6.00	s siab thickness	258 - 0.00 87 - 0.00 44 - 6.00 15 - 6.00 7 - 6.00 10 - 0.00 29 - 4.00 4 - 6.00		246 - 0.00 3 - 0.00 3 - 0.00 35 - 0.00 36 - 0.00 37 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 47 - 0.00 48 - 0.00 49 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.00 40 - 0.	
Intenor Walls Gallerv entrance wall length West side of auxiliary pumps length West side of auxiliary pumps end South side of auxiliary pumps length Column near stairwell	Repeatable pump separation walls Main divider (N to S) length Main divider end Short wall (N to S) length Haliwav wall (N to S) length Haliwav wall end Short wall (E to W) length Short wall (E to W) length Short wall end	South East Corner Interior Walls Starwell wall length Starwell wall end Wall (E to W) length Wall (N to S) length Wall end Starwell dividing wall length Starwell dividing wall end	OPERATING DECK SLAB EL+22.0 TO EL+25.0 (assumes stab thickness 3.0 ft)	Continuous slab TOC EL +25.0 Length Slab width add pump housing opening formwork 14-2 diam add stair opening formwork length add stair opening formwork width add stair opening formwork width add auxillary shaft opening formwork length add auxillary shaft opening formwork width		elevated formwork haltwav elevated formwork north wall openings elevated formwork west wall openings elevated formwork actualiary pipes elevated formwork actualiary pipes elevated formwork pipe exit area elevated formwork pipe exit area elevated formwork haltway near stairs elevated formwork haltway near stairs elevated formwork haltway near stairs subtract column and stairwell wall Subtract pipe gallerv equipment access Subtract pipe gallerv equipment access Subtract stairwell opening Subtract stairwell opening Subtract stairwell opening elevated formwork stairs	_

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2562.0 17.5 64.2 2970.0 330.0 80.0 72.0 80.0 112.0 584.0 66.0 384.0 1484.0 3700.0 1260,0 13,5 2643.7 140.0 19.0 2028.5 336.0 100.0 17.0 200.0 3.0 276.0 32.0 WALLS SUBTOTAL ELEVATED SLAB SUBTOTALS SOG SUBTOTAL SOG SUBTOTAL WALLS SUBTOTAL 9 20 4 0 2 - 0.00 2 - 0.00 2 - 0.00 2 - 0.00 2 - 0.00 2 - 0.00 3 - 6.00 3 - 6.00 3 - 6.00 i - 0.00 - - 1 - 0.00 - 0.00 - 0.00 4 - 6.00 3 - 6.00 4 - 0.00 33 - 0.00 183 - 0.00 0 - 10.00 9 - 2.00 20 - 0.00 18 - 0.00 20 - 0.00 28 - 0.00 33 - 0.00 4 - 0.00 24 - 0.00 4 - 0.00 18 - 0.00 10 - 0.00 6 - 0.00 70 - 0.00 50 - 0.00 70 - 0.00 1 - 6.00 50 - 0.00 elevated formwork Slab spanning intake bays TOC -Walls (maintain 1 foot above slab) length Walls end Elevated formwork Bridge slabs Elevated formwork Trash collection pad Approach slab West length
Approach slab West width
Approach slab East length
Approach slab East length
Bridge slabs TOC EL+16.0 length
Trash collection pad length
start platform formwork
training pier walkwax sides Stair Platforms elevated formwork bottom platforms elevated formwork top platforms At Pipe Gallery Walls (maintain at EL+18.0) length Wails end ENTRANCE RAMPS (TELLIFICATION) INTERPRETATION At Pipe Gallery Slab (EL+17.0 to EL+10.0) length slab width AT Operation Floor Slab (EL+20.0 to EL+25.0) length slab width Guardrail Long walls length Long walls end Short wall at trash pad length SERVICE BRIDGE TOC EL+16.0 Fraining Pier Walkway AT Operation Floor

Sheet No.
Job No. 1730009
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Pump Structure Concrete

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Slab Under Louver Enclosure Slab TOC +25.0 length Slab width	72 - 0.00 9 - 6.00 3 - 0.00 3 - 0.00 4 114.0		3 - 0.00	0.4	432.0 114.0
Exterior Stair Landing Pads	5 - 0.00		1 - 0,00	8	100.0
stair tread formwork:operation deck to pipe gallery	3 - 3.00		1 - 0.00	26	84.5
500cts Pump Engine Foundation length 500cts Pump Engine Foundation width 250cts Pump Engine Foundation length 250cts Pump Engine Foundation width	6 - 0.00 18 - 0.00 5 - 0.00		3 - 0.00 3 - 0.00 3 - 0.00 3 - 0.00	4444	72.0 216.0 60.0
Pipe Support Pad under elbow inside building (EL+10.0) pipe penetration formwork pipe penetration formwork Erosion slab under length of pipe (external) length Erosion slab width	10 - 0.00 6 - 0.00 8 - 0.00 210 - 0.00 10 - 0.00		- 0.00	. <del>6</del> ထသထထ	160.0 48.0 64.0 1680.0 80.0
			s 90s	SOG SUBTOTAL	3302.5
Concrete thrust block width Concrete thrust block length Pipe support piers along diagonal run (slab)	10 - 0.00 8 - 0.00 32 - 0.00		3 - 0.00 3 - 0.00 2 - 0.00	8 20	240.0 192.0 1280.0
			FOOTING SUBTOTAL	UBTOTAL	1712.0
Elevated formwork Stairs:Operation Deck-Pipe Gallery	20 - 0.00	7 - 6.00			147,9
		- ii -	ELEVATED SLAB SUBTOTAL	UBTOTAL	147.9
6" curb at aux shaft opening Pipe support piers along diagonal run (wall)	68 - 8.00 24 0.00		. 0 . 6.00 4 0.00	- 8	34.3
FUEL:OIL: STORAGE AREATHWHILM THE THE			WALLSS	WALLS SUBTOTAL	1954.3
East End Retaining Wall Footing slab Footing below slab	306 - 0.00 302 - 0.00		i - 0.00 2 - 0.00		306.0
			FOOTING SUBTOTAL	UBTOTAL	910.0
Storage Area Slab length Slab width trench slab	122 - 6.00 38 - 0.00 26 - 0.00		0.00	N N -	245.0 76.0 26.0
			s 90s	SOG SUBTOTAL	347.0
retaining stem wall trench walls building Walls length Walls end	302 - 0.00 17 - 0.00 122 - 6.00		4 8 4 4 0.00 0.00 0.00 0.000	-04	1208.0 102.0 1960.0
Walls			4 - 0.00	14	8.0 576.0
			WALLSS	WALLS SUBTOTAL	2544.0

Sheet No.
Job No. 1730099
Structure information
Pump Structure Concrete

2002 | 4 128x 19908.0 37184.0 2544.0 118530.1 12083,3 1954.3 28800.0 2028.5 6644.3 4740.0 3700.0 21069.1 13093.4 2639.0 1588.8 147.9 14720.5 3302.5 3065.0 1484.0 2634.0 3612.0 276.0 347.0 FOOTING 1712.0 2622.0 910.0 TOTALS INTAKE BAYS EL-6.0 TO EL-3.5 (assumes slab thickne INTAKE BAYS EL-3.5 TO EL+7.0 (to bottom of pipe gall PIPE GALLERY SLAB EL+7.0 TO EL+10.0 (assumes sla NTAKE BAYS EL-16.0 TO EL-6.0 (to bottom of interme PIPE GALLERY EL+10.0 TO EL+22.0 (to bottom of oper OPERATING DECK SLAB EL+22.0 TO EL+25.0 (assum SUMMARY: FORMWORK QUANTITIES FILL CONCRETE (Intake pipe formation) Description SERVICE BRIDGE TOC EL+16.0 FUEL OIL STORAGE AREA ENTRANCE RAMPS MISCELLANEOUS SUCTION BASIN FOUNDATION

Date: May 10, 2006 Date:

STAN ONSULTANTS
Computer by: Z Brownson
Checked by:
Approved by:
PS1 Substructure Qty.xls

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Stanley Consultants, Inc.
Designed By: K. Hall 5/24/2006
Checked By: D. Dreyer 5/24/2006

PROJECT NO. 17300.09.02
C43PS1
ctural And Miscellaneous Steel
Preliminary Quantities
Page
Sheet 1 of 3

	irai and iviiso	cellaneous	Steel.xis		Structural	Structural And Miscel Prelimin
Length (ft)	Width (ft)	Height (ft)	Unit Wt (Ib/ft)	Š	Takeoff Qty.	Unit
18			56	7	2.6	Tons
18			14.62	က	0.4	Tons
22.41			9.8	4	0.4	Tons
18			94	4	3.4	Tons
11.40			8.0	7	0.1	Tons
164.15			48.5	Ψ-	4.0	Tons
194.41			12.8	7	2.5	Tons
90.16			145	~	6.5	Tons
					19.9	Tons
				15	298.6	Tons
	Length (ft) (8 18 18 18 11.40 164.15 194.41 90.16	Length Width (ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft)	Length Width Height  (ft) (ft) (ft)  18  22.41  18  11.40  164.15  194.41  90.16	Width Height (ft)	Width Height Unit Wt (ft) (lb/ft) 26 14.62 9.8 9.4 9.8 48.5 12.8 145	Width Height Unit Wt No. Tak  (ft) (ft) (lb/ft)  26 11  14.62 3  9.8 4  9.8 2  48.5 1  12.8 2  145 1

HSS 10x6x1/4	18			25.82	4	6.0	Tons
HSS 6x6x1/4	18			19.02	4	0.7	Tons
	8.75			19.02	12	1.0	Tons
	9.25			19.02	2	0.4	Tons
	16.67			19.02	17	2.7	Tons
	17.00			19.02	വ	8.0	Tons
	4.50			19.02	32	1.4	Tons
TOTAL (per enclosure)						7.9	Tons
TOTAL (all enclosures)					2	15.9	Tons
Pump Gear Base Plates							
14'-2" Diameter x 3" Thick	12.55	12.55	0.25	490	4	38.6	Tons

Stanley Consultants, Inc.
Designed By: K. Hall 5/24/2006
Checked By: D. Dreyer 5/24/2006

Structural and Miscellaneous Steel.xls

PROJECT NO. 17300.09.02
C43PS1
Structural And Miscellaneous Steel
Preliminary Quantities
Page
Sheet 2 of 3

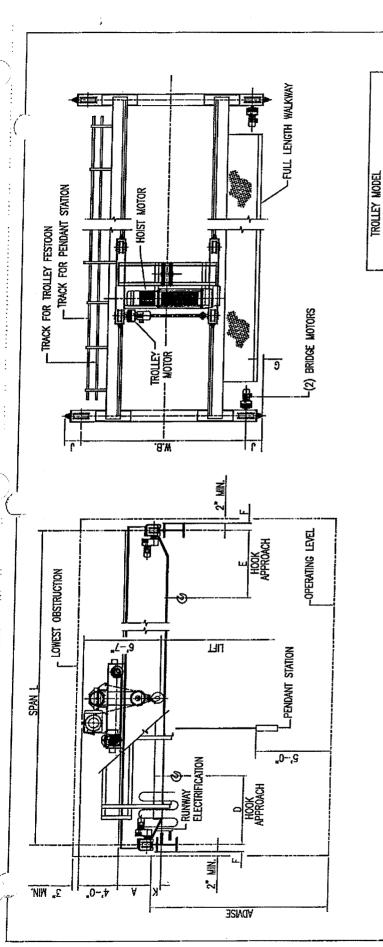
	Length (ft)	Width (ft)	Height (ft)	Unit Wt (!b/ft)	Š	Takeoff Qty.	Unit
Engine Maintenance Platforms	50	3.5			- ∞	560.0	n R
Roof Access Ladder							
Ladder	26.00				^	52.0	<u>11</u>
Cage	20.00				1 0	40.0	. <u>"</u>
Platform	3.00	2.50			_	7.5	SF
Steel Guardrail							
Stoplog Access Platform	150				0	300	ш
Retaining Wall	150				۰ -	150	<u>. Li</u>
Ramp to Operating Floor	20				۰ ،	5 5	- <u>-</u>
Ramp to Pipe Gallery	74				2	148	i <u>"</u>
Total						698	LF
Auxiliary Equipment Support Platforms	12	12		ည	<b>∞</b>	2.88	Tons
					**************************************		
Stoplogs							
	32.00	6.25	0.03125	490	_	1.53	Tons
Edge Channels (C12x20.7)	76.50			20.7	<del></del>	0.79	Tons
Stiffener Channels (C12x20.7)	6.25			20.7	9	0.39	Tons
						2.71	Tons
lotal for 4 Stoplogs					4	10.84	Tons
Stoplog Recess Armoring	000				;		
7 L-144/1/2 3/4" Als v 41/0" I one hooddad atuda @ 40"	128.00			12.8	34	27.85	Tons
of did valle Long Headued Studs (# 10 0.0.	128.00			1.5	怒	2901	Ea

Stanley Consultants, Inc.
Designed By: K. Hall 5/24/2006
Checked By: D. Dreyer 5/24/2006

Structural and Miscellaneous Steel.xls

Structural And Miscellaneous Steel
Preliminary Quantities
Page
Sheet 3 of 3 PROJECT NO. 17300.09.02 C43PS1

Unit	Tone	Tons
Takeoff Qty.	40.82	8.40
Š.	٥	2
Unit Wt (Ib/ft)	162	33.33
Height (ft)		
Width (ft)		
Length (ft)	252	252
	X bridge Crane Kunway W24x162 Girder	100# Rail



_	826		SS.	ĺ
	31610-5826	38'-11"	9460 LBS.	
	31610-4826	340 <b>*</b>	9330 LBS.	
	31610-2826	25'-10"	8400 LBS.	
		드	TROLLEY WEIGHT	
		BRIDGE	ERS.	
		MAX, WHEEL	EBS:	
	- F			ſ

HOISTING SPEED	10/1.7 FPM
SRIDGE SPEED	100 FPM (VARIABLE)
ROLLEY SPEED	80 FPM (VARIABLE)
POWER SUPPLY	460/3/60

67200 72500 76000 80100 85600 90900 96800

100#

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3'-10" 3'--10"

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4'-6" 3'-10" 4'-6" 3'-10"

> 4 -9 100'-0" 5'-0"

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RUNWAY RAIL SIZE

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4'-6" | 3'-10"

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1. HOIST CLASSIFICATION: HM H4 / FEM 3M
2. LONGER LIFTS ARE ANALABLE
3. SPEEDS SHOWN ARE STANDARD, OTHER SPEEDS ARE AVAILABLE.
4. AUXILIARY HOIST AVAILABLE.

E FOR HOIST

REVISION:

D. VARIABLE FREQUENCY DRIVE AVAILABLE FOR HOIST	VING PRODUCT INFORMATION	MG. NO: A-20418-317	DATE: 10/
	CLASS D TOP RUNNING	(WITH MODULAR HOIST)	60 TON CAPACITY
	& EQUIPMENT CORPORATION	19518 U.S.A. 61	FAX: 610-385-3191

STANLEY CONSULTANTS
Computed by: D Dreyer
Checked by:
Approved by:
Saxophone Discharge Qty xls

Date:	May 23	2006
Date:		
Date:		

Sheet No. ______
Job No 1730009
C43PS1
Saxophone Discharge Structure
Quantities
1 of 1

Saxophone Discharge Quantities							- <del></del>	
Description	Length (ft) - (in)	Width / Th (ft) - (in)	Depth / Ht (ft) - (in)	Number	QTY	Volume (yd²)	Unit Weight	Weight (short ton
			s sys	: "			:. ·	
	:		:		00	0.0	150	00
Excavation	•		<u> </u>	i			:	•
EL 17 00 to EL 0 00	74 - 0 00	26 - 0 00	17 - 0 00	4	130832 0	4845 6		
Cofferdam	· Di Di Ni W	20 m - 1 m				* * * * * *		
Sheet Pile Sheet Pile	200 - 0 00	1 - 0 00	42 - 0 00	4	33600 0	-	24 17	406 1
I Walf								
Concrete Add for waste	176 - 0 00	2-000	8 - 0 00	4	11264 0	417.2 20.9		
Total Concrete		]			ŀ	438 0	l	
Anchor Wall Reinforcing	·				67 6		490	16.6
Tremie Concrete (EL 0 00 to EL 4 00)	72 - 0 00	24 - 0 00	4 - 0 00	4	27648.0	1024.0		
Thrust Block Concete	13 - 0 00	12 - 0 00	13 - 0 00	4	81120	300.4		
Backfilling		L.,				L	L	
On-site Material - EL 0 00 to EL 18 00								
	72 - 0 00	24 - 0 00	14 - 0 00	4	96768 0	3584 0		
Subtract Volume Displaced by Thrust Block	13 - 0 00	12 - 0 00	13 - 0 00	-4	-81120	-300 4		
Subtract Volume Displaced by Pipe Subtotal	26 - 0 00	7-000	7 - 0 00	-4	-5096 0	-188 7 3094.8		
Add for Shrinkage (20%) Fotal backfill						619.0 3713.8		
Rip Rap EL 18 00 to EL 20 00	74 - 0 00	24 - 0 00	2 - 0 00	4	14208.0	526 2	120	31 6



# TABLE 1 SOUTH FLORIDA WATER MANAGEMENT DISTRICT ENGINEERING AND CONSTRUCTION DEPARTMENT C-43 STORAGE RESERVOIR PUMP STATION 1 Quotations

		William Stellddd Stell S
FOO 95 D		
ond cis Fump (pump only)	\$712,000	Flowserve
250 cfs Pump (pump only)	\$435,000	Flowserve
1050 gpm Cooling Water Pump (pump and motor)	\$13,911	
525 gpm Cooling Water Pump (pump and motor)	\$11,789	<u> -</u>
100 gpm Lubrication Water Pump (pump and motor)	\$7,440	TTI
250 CFS Vacuum Pumps (pump, motor and accessones)	\$15,934	NASH
Trash Rake		
Raking machine with 2 trolley/grippers and controls	\$586,000	Bracket Green
Five-304L Screens / Lanh GOLSIGN	\$1,650,000	Bracket Green
Field Service	\$12,000	Bracket Green
Potable Water System		
Softener	\$1,029	
RO Unit (with booster pump)	\$2,350	
Hydropneumatic Tank	\$8,740	
UV Unit	\$414	

	Pump Engine MATSPLA				LARO
<u>Equipment</u>	Size	Quantity	<u>Material</u>	Cost per Unit	Total
Pipe	96" Thickness 11/16"		CS		
Pipe	72" Thickness 9/16"	425	CS		
Coupling	96"	12		1,000	103
Coupling	72"	12		830	37
Saxophone	96"	2		12,000	12,80
Discharge	-1 Z."	22	CS	10,000	10,000
P-1 & P-2	500 cfs	2			
P-3 & P-4	250 cfs	2			
	<u> </u>				
			. p. 18. 19.		
The second secon					
The second secon					
			****************		
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				<u> </u>	
			E 10 (B) 4 (C)		

Component Quantities for Cost Estimating Pump Engine									
Equipment	Size	Quantity	Material	Cost per Unit	Total				
Caterpillar 3612	3600 Hp @900 rpm	2		\$1,400,000	\$2,800,000				
Caterpillar 3516	1800 Hp @1800 rpm	2		\$700,000	\$1,400,000				
Ball Valve	1"	4	Carbon Steel CI 150						
Reduction Gear	1800 hp	2		\$205,000	\$410,000				
Reduction Gear	3600 hp	2		\$405,000	\$810,000				
and the second s									
	;	· ·	- 191 <del>1</del>						

Component Quantities for Cost Estimating								
		/acuum Pi	riming System					
Equipment	Size	Quantity	<u>Material</u>	Cost per Unit	<u>Total</u>			
Air Operated Vent Valve	16"	6	Carbon Steel Class 150					
Air Operated Vent Valve	12"	6	Carbon Steel Class 150					
Ball Valve	1"	8	Carbon Steel Class 150					
Barometric Tube	24"	1						
Butterfly Valve	4"	4	Carbon Steel Class 150					
Check Valve	10"	4	Carbon Steel Class 150					
Check Valve	4"	4	Carbon Steel Class 150					
Dry Contact	1"	4						
Expansion Joint	4"	4	-					
Motor Operated Butterfly Valve	10"	8	Carbon Steel Class 150		_			
Motor Operated Check Valve	4"	8	Carbon Steel Class 150					
Motor Operated Gate Valve	6"	1	Carbon Steel Class 150					
Motor Operated Vent Valve	16"	4	Carbon Steel Class 150					
Motor Operated Vent Valve	12"	4	Carbon Steel Class 150					
Pipe	12"	480'	A53 GR B, black, Sch 40		1			
Pipe	4"	40'	A53 GR B, black, Sch 40					
Plug Valve	16"	4	Carbon Steel Class 150					
Plug Valve	12"	4	Carbon Steel Class 150					
Reducer	1" x 3/4"	4	A53 GR B, black, Sch 40					
Reducer	10" x 3"	4	A53 GR B, black, Sch 40					
Reducer	18" x 10"	4	A53 GR B, black, Sch 40					
Reducer	12" x 18"	2	A53 GR B, black, Sch 40					
Relief Valve	3" x 2 1/2"	1	Carbon Steel Class 150					
Solenoid Gate Valve	1"	4	Carbon Steel Class 150					
Solenoid Gate Valve	18"	1 ;	Carbon Steel Class 150					
Vacuum Pump	60 49k hp	2		\$27,480.00	\$54,960.00			
	€68(hp	2		\$15,934.00	\$31,868.00			
			<u> </u>					
and a second sec								
		-						

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Component Quantities for Cost Estimating  Lubricating Water Supply System									
Eguipment	Size			Cost per Unit	<u>Totai</u>				
Fresh Water Pump	100 gpm	2	400, 17	\$15,934.00	\$31,868.00				
Ball Valve	1/2"	2	Carbon Steel CL 150						
Combination Air Valve	1/2"	2	Carbon Steel CL 150						
Check Valve	4°	2	Carbon Steel CL 150						
Butterfly Valve	4"	8	Carbon Steel CL 150						
Self Cleaning Strainer	4" inlet	4							
Solenoid Valve	2"	4	Carbon Steel CL 150						
Ball Valve	1"	6	Carbon Steel CL 150						
Check Valve	1"	2	Carbon Steel CL 150	. 1100					
Reducer	1" x 1/2"	2	A 106 B, Sch 40						
Lube Water Pumps	80 gpm	2							
Pressure Indicator	<u> </u>	10							
Lube Water Storage Tank	500 gal	1							
Level Transmitter		1							
Pipe	4"	90'	A 106 B, Sch 40						
Pipe	2"	30'	A 106 B, Sch 40						
Pipe	1"	40'	A 106 B, Sch 40						
21/2 344	2:12	3							
				-					
					1,77,000,000,000,000,000				

	Li	ibe Oil Supp	oly System		
Equipment	<u>Size</u>	Quantity	<u>Material</u>	Cost per Unit	<u>Total</u>
Pump Truck Piping Connection	4"	2			
Reducer	4" x 3"	2	4" A53 B ERW Perma- Pipe, Sch 40	15174-5913	usival 9mi
Pressure Indicator		9			
Ball Valve	3"	3	Carbon Steel CL 150	13197-5559 11	PLUPTUM 3.5
Lube Oil Receiving Pump	25 gpm	1			1
Check Valve	3"	2	Carbon Steel CL 150		
Lube Oil Storage Tank	1200 gal	1		13209 - 3000 Mg	PFR76 MH
Plug Valve	1"	1	Carbon Steel CL 150		
Level Gage and Transmitter		1			
Ball Valve	2"	9	Carbon Steel CL 150		
Lube Oil Transfer Pump	25 gpm	2			
Lube Oil Makeup Pump	3 gpm	2			
Check Valve	2"	8	Carbon Steel CL 150		
Three Way Valve	2"	2	Carbon Steel CL 150	<b>*</b>	
Moisture Separator	2" inlet	4	(	15193 - 7821 MDL	DRUMIZY
Globe Valve	2"	2	Carbon Steel CL 150		
Gate Valve	1"	4	Carbon Steel CL 150		
Reducer	2" x 1 5"	4	4" A53 B ERW Perma- Pipe, Sch 40	15176-5712 V	_
Solenoid Gate Valve	1.5"	4	Carbon Steel CL 150	15194 -5X1 MPL	UPLUM I (U
Pipe	4"	10'	6" A53 B ERW Perma- Pipe, Sch 40	15172-0001 B	
Pipe	3"	30'	6" A53 B ERW Perma- Pipe, Sch 40	15172-0002 1 \$ 93 MAT	
Pipe	2"	320'	4" A53 B ERW Perma- Pipe, Sch 40	15172-0003 1 4 80	-ipcusz er

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Component Quantities for Cost Estimating							
			Supply System				
<u>Equipment</u>	Size	Quantity	<u>Material</u>	<u>Cost per</u> <u>Unit</u>	<u>Total</u>		
Ball Valve	1"	16	Jamesbury/Nibco				
Ultraviolet Units	14 gpm	2					
Reducer	1" x 3/4"	8	ASTM B88 Type K				
Well pump	10 gpm	1					
Water Softeners	10 gpm	2					
Ball Valve	3/4"	4	Jamesbury/Nibco	<b>.</b>	a a series series conse		
Reverse Osmosis Booster Pump	10 gpm	2	(mayor W/RO	UNIT)			
Check Valve	1/2"	2	Crane '		- 10 VI (1)		
Ball Valve	1/2"	8	Jamesbury/Nibco				
Reverse Osmosis Filter Cartridge	10 gpm	2					
Reverse Osmosis Units	3 gpm	6					
Storage Tank	200 gal	1					
Booster Pumps and Hydropnumatic Tank Package	100 gal	1	·				
Level Transmitter		1					
Check Valve	1.5"	1	Crane				
Reducer	1.2" x 1"	1	ASTM B88 Type K				
Pipe	1"	200'	ASTM B88 Type K				

Component Quantities for Cost Estimating							
	Comp	ressed Air	System				
Equipment	Size	Quantity	<u>Material</u>	Cost per Unit	<u>Total</u>		
Compressor	55 CFM @ 250 psi	2	100007				
Check Valve	2"	6	Crane or Lunkenheimer				
Moisture Separator	2" Inlet	1					
Ball Valve	2"	11	Jamesbury or Nibco				
Starting Air Receiver	550 gal	2					
Starting Air Receiver	275 gal	2					
Ball Valve	1"	5	Jamesbury or Nibco				
Pressure Indicator		6					
Gate Valve	2"	3	Crane or Lunkenheimer		1		
Pressyure Reducing Valve	1.5"	4	Crane or Lunkenheimer				
Relief Valve	1.5"	4					
Ball Valve	1.5"	7	Jamesbury or Nibco				
Air Dryer	25 SCFM	1					
Pipe	2"	500'	W				
Pipe	1.5"	230'					
Particulate Filter	25 SCFM	1					
Gate Valve	1"	4	Crane or Lunkenheimer				
Gate Valve	1/2"	4	Crane or Lunkenheimer				
Globe Valve	1.5"	8	Crane or Lunkenheimer				
Solenoid Gate Valve	2"	1	Crane or Lunkenheimer				
Flexible Connection	2"	2	15176 0011 MOPF STP11	1. Louis Wood	D 34.001		
Air Reciever	150 gal	1	THE CONTROL OF THE STEEL	LIVOPI, VAS ESCEN			
			;				

Compone	ent Qu	uantities	for Cost Esti	mating	
	Waste	Fuel & Eng	gine Oil System		
Equipment	Size	Quantity	<del></del>	Cost per Unit Total	
Pump Truck Piping Connection	4"	4		02681-0911 MSPFR6 INH	340 HATL
Reducer	4" x 3"	3	6" A53 B ERW Perma Pipe, Sch 40	15188-0013 USPFRG ZAM	<del>4</del> 5
Ball Valve	3"	8	Carbon Steel CL 150	15190- SALI MENURI ZHE	225 MAT
Check Valve	3"	2	Carbon Steel CL 150		
Check Valve	2"	4	Carbon Steel CL 150		
Ball Valve	2"	7	Carbon Steel CL 150		
Level Gage with Transmitter		4			
Flame Arrestor		4		15411-0011 WELDPLUMID	4 MHS \$ SOUN
Waste Lube/Fuel Oil Collection Tanks	1200 gal	2	Double Walled, Fire and Ballistic Resistant	13205-0011 460-002 011	
Waste Lube/Fuel Oil Tanks	1200 gal	2	Double Walled, Fire and Ballistic Resistant	13205-0012 USPF 07 BULL	\$ 10,000 WA
Waste Lube/Fuel Oil Transfer Pumps	25 gpm	2	AND		
Waste Lube/Fuel Oil Pumps	50 gpm	2			
Pressure Indicator		3			
Plug Valve	1"	6	Carbon Steel CL 150		
Ball Valve	3/4"	2	Carbon Steel CL 150		
Reducer	2" x 1 5"	4+4=8	4" A53 B ERW Perma- Pipe, Sch 40	15188-00 MSPFQG Z,ZM	·#\$
Gate Valve	3/4"	4	Carbon Steel CL 150		
Reducer	1" x 1/2"	4	4" A53 B ERW Perma Pipe, Sch 40	15188-0012 NSPFE 2.1 NHS	•
Pipe	4"	10'	6" A53 B ERW Perma Pipe, Sch 40		
Pipe	3"	400'	6" A53 B ERW Perma Pipe, Sch 40		
Pipe	2"	250'	4" A53 B ERW Perma Pipe, Sch 40		
Pipe	1"	120'	4" A53 B ERW Perma Pipe, Sch 40		
Pipe	3/4"	30'	4" A53 B ERW Perma Pipe, Sch 40		
Globe Valve	1"	4	Carbon Steel CL 150		

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# WASTE FUEL & ENGING OIL SYSTEM (CON'T)

Reducer	1 5" x 2"	2	4" A53 B ERW Perma-Pipe, Sch 40	ADD to Provis
Reducer	2" x 1"	4	4" A53 B ERW Perma-Pipe, Sch 40	13188-0014 MSPFQGZZN45
Silencer	8" Inlet	2	Stainless Steel 304 L	15162-3060 MPWQI 10MHS 4,500 MAZ
Solenoid Gate Valve	2"	3	Carbon Steel CL 150	15194-3513 MPHUPWHI BUKS 900 MAT
Solenoid Gate Valve	1"	6	Carbon Steel CL 150	15194-3512 2445 4850 MATE
Three Way Valve	З*	2	Carbon Steel CL 150	15193-7822 UPWALUM   3MMG \$ 1000 MATE
Caterpillar Generators 3412	500 KW @ 1800RPM	2		
Fuel Oil Day Tank	775 gal	2	Double Walled, Fire and Ballistic Resistant	13205-0013 MSPCQ-1 81425 \$5,000
Fuel Oil Day Tank	425 gal	2	Double Walled, Fire and Ballistic Resistant	13203-00 LL MISPIERT SHEET \$4,000

Compo			s for Cost Estima	nting		
Cooling Water Supply System						
Equipment	<u>Size</u>	Quantity	<u>Material</u>	Cost per Unit	Total	
Level Gage and Transmitter		3				
Back Pressure Regulator	1.5"	3				
Ball Valve	4"	1	Carbon Steel CL 150			
Ball Valve	3"	4+2=40				
Ball Valve	1.5"	4	Carbon Steel CL 150			
Ball Valve	1"	5+2=7e				
Ball Valve	3/4"	5	Carbon Steel CL 150	1		
Ball Valve	1/2"	2	Carbon Steel CL 150			
Check Valve	3"	9	Carbon Steel CL 150			
Check Valve	4"	11	Carbon Steel CL 150			
Check Valve	1.5"	3	Carbon Steel CL 150			
Check Valve	3/4"	2	Carbon Steel CL 150			
Expansion Joint	8"	4	Stainless Steel 304 L			
Flame Arrestor		4				
Flexible Connection	3/4"	2	-			
Flexible Connection	1/2"	2	•			
Fuel Oil Filter	3" Inlet	4				
uel Oil Receiving Connection	4"	2				
Fuel Oil Receiving Pump	225 gal	1	1			
Fuel Oil Storage Tank	25000 gal	4	Double Walled, Fire and Ballistic Resistant	13205-3129 M	SPFQ732 M	:45
Fuel Oil Transfer Pump	20 gpm	3		<del> </del>		
Globe Valve	3"	5	Carbon Steel CL 150	15194-4560 MPU	101 3.5 MHS	^U 59.2
Globe Valve	2"	7	Carbon Steel CL 150	\		
Pipe	4"	15'	∠'A53 B ERW Perma-Pipe, Sch 40			
Pipe	3"	120'	6" A53 B ERW Perma-Pipe, Sch 40			
Pipe	2"	180' 4	X A53 B ERW Perma-Pipe, Sch 40			
Pipe	1 5"	200'	4" A53 B ERW Perma-Pipe, Sch 40			
Pipe	1"	40'	4" A53 B ERW Perma-Pipe, Sch 40			
Pipe	3/4"	65'	4" A53 B ERW Perma-Pipe, Sch 40			
Pipe	1/2"	15'	4" A53 B ERW Perma-Pipe, Sch 40	15188-2419	MSPFQ50.8	Пмн 423
Pipe	8"	18'	Stainless Steel 304 L			
Plug Valve	1"	3	Carbon Steel CL 150			
Pressure Indicator		3				
Reducer	4" x 3"	1	6" A53 B ERW Perma-Pipe, Sch 40			

Comp	onent	Quantiti	es for Cost E	<u>stimating</u>		
4,10,10	Co	oling Wate	r Supply System	2.2		
Equipment	Size	Quantity	<u>Material</u>	Cost per Unit	<u>Total</u>	
Ball Valve	1"	5	Carbon Steel CL 150	ADD TO PREVIOU	15 54357	
Ball Valve	3"	4	Carbon Steel CL 150	ADD TO PROVI	ocas simber	
Butterfly Valve	10"	12	Carbon Steel CL 150			
Butterfly Valve	6"	7	Carbon Steel CL 150			
Check Valve	10"	3	Carbon Steel CL 150		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Check Valve	6"	2	Carbon Steel CL 150			
Combination Air Valve	1"	5	Carbon Steel CL 150			
Needle Valve	3"	4	Carbon Steel CL 150	15197-0010 MPLU	RI ZMHS #	475MA76
Pipe	10"	600'	A106 B, Sch 40			• 1
Pipe	2"	30'	A106 B, Sch 40			
Pipe	3"	600'	A106 B, Sch 40	_		
Pipe	3/4"	10'	A106 B, Sch 40			
Pipe	6"	15'	A106 B, Sch 40			
Pressure Indicator	The second second	20	/ 4 /			
Pressure Reducing Valve	10"	3	Carbon Steel CL 150	15193-7950 MPWP	UNI SMAS	#4,500 MATL
Pressure Reducing Valve	6"	2	Carbon Steel CL 150	15193 7900 LYCUPL	UMI BAIRS	#4,000 MATL #3,000 MATL
Pump	1050 gpm	3	- ""	\$13,911.00	\$41,733.00	
Pump	525 gpm	2		\$11,789.00	\$23,578.00	
Reducer	10" x 4"	2	A106 B, Sch 40			
Reducer	10" x 8"	3	A106 B, Sch 40			
Reducer	6" x 4"	2	A106 B, Sch 40			
Self Cleaning Strainer	10" conn	6				
Self Cleaning Strainer	6" conn	4				
Solenoid Gate Valve	2"	10	Carbon Steel CL 150			
Solenoid Gate Valve	3"	4	Carbon Steel CL 150	15194-3509 UPLU	PLUMI 3HHS	"1,200 MATL
Motor Operated Plug Valve	4"	4	Carbon Steel CL 150			\$ 4500 MATL
Ball Valve	6"	4	Carbon Steel CL 150			



Pump & Equipment Associates Inc.

3524 Craftsman Blvd Lakeland, Fl 33803

3006 Mercury Road Jacksonville, Fl 32207

Tel: (800) 780-7867 • Fax: (863) 666-5649 Jax Fax: (904) 733-8204

Unit Price

27,480.00

Number: 040706

Date: April 7, 2006

### Proposal

Name:

Jeff Jiang

Address:

Stanley Consultants

West Palm Beach Phone 561-689-7444 Fax 561-689-3003

Subject:

NASH Priming System Pricing You Requested

Jeff.

Here is the pricing you requested. Please review and let me know what additional questions you may have

This proposal is submitted on behalf of Gardner Denver Nash, LLC, as seller and is subject to Gardner Denver Nash, LLC. Terms and Conditions Form T-C0600.doc Thank you for your interest in Gardner Denver Nash equipment for your facility. Based on the information provided we are pleased to offer the following for your consideration,

### Option 1 – 1005 CFM @ 28" Hg

Description

XL 250 Vacuum pump, all Iron construction With 60 HP, 1750 rpm, 3/60/230-460 volt, TEFC

motor. Complete assembly includes pump, motor, belts, sheaves, belt guard and bedplate

The pump will turn at 880 rpm

The following accessories are also included;

Seal water strainer

Solenoid Valve

Flow Control Valve

Separator/Silencer

Vacuum Gauge

Pressure Gauge

Flow Switch Inlet Check Valve

Relief Valve

All piping and fittings for accessory assembly

## Option 2 – 503 CFM @ 28" Hg

Description

XL 80 Vacuum pump, all Iron construction

Unit Price

15,934.00

With 40 HP, 1750 rpm, 3/60/230-460 volt, TEFC motor Complete assembly includes pump,

motor, coupling, guard and bedplate

The following accessories are also included;

Seal water strainer
Solenoid Valve
Flow Control Valve
Separator/Silencer
Vacuum Gauge
Pressure Gauge
Flow Switch
Inlet Check Valve
Relief Valve
All piping and fittings for accessory assembly

TERMS OF PAYMENT are net 30 days from date of invoice

VALIDITY of this proposal to be sixty (60) days from date of quotation All prices are firm through delivery.

WARRANTY: All Nash manufactured equipment offered in our proposal include a TWO (2) YEAR WARRANTY against defects in material and workmanship from date of shipment.

SHIPMENT:  $XL\ 250-6$  to 8 weeks.  $XL\ 80-12$  to 16 weeks. All equipment is shipped freight collect unless otherwise stated in your purchase order. Should your order be tax exempt, please furnish us with a tax-exempt certificate with your purchase order.

Should you have any questions or comments, please do not hesitate to contact me.

Tto expedite delivery an order resulting from this proposal should be written to:

# Hudson Pump and Equipment, L.L.C.

3524 Craftsman Blvd Lakeland, FL. 33803

Sincerely yours,

Chuck McCaughey
Hudson Pump and Equipment Associates, LLC

Representatives of Gardner Denver Nash, LLC

#### Jensen, Glenn

From: Ah

Ahlschwede, Jon

Sent:

Friday, May 19, 2006 12:52 PM

To:

Jensen, Glenn

Cc:

Grounds, Dave; Roeth, Brad

Subject: FW: Pump Quote - C43PS4

For your use on Pump Station No 4

Jon

From: Victor Powell [mailto:powellkugler@hotmail.com]

**Sent:** Friday, May 19, 2006 12:32 PM **To:** Grounds, Dave; Ahlschwede, Jon

Cc: 'zan kugler'

Subject: Pump Quote - C43PS4

#### Gentlemen:

Please forward the attached to your estimators Please note that the "Pump Quote" includes the Motors which we have priced separately

Thanks, vic

#### Weir Floway - Fresno Main Office

2494 S Railroad Ave PO Box 164 Tel: 559-442-4000 Fax: 559-442-3098

Fresno, Ca 93707

U. S. A.

CLEAR HQUID

To: Powell Kugler, Inc.

500 S Austrailian Ave St 600 West Palm Beach, Florida 33401-6237

561 820-4891

Date: May 18 2006

Quoted to ref no:

Project name: C43 RESERVOIR PUMP STATION

Quote number: 19934

Rev No:

Attn: ZAN KUGLER zkugler@yahoo com

With reference to your project noted above, we are pleased to submit our proposal covering the equipment described

The following is a price summary for this project. See itemized quote for details

Item Number	Service	Pump Size	Unit Price	Unit Freight	Qty	Extended Price
001		- 1 stage Product	\$ 368 946	\$ 14 758	3	\$ 1 151 112
			<u> </u>	Grand	Total	\$ 1,151,112

COMMENTS: OUR QUOTE WAS PREPARED PER YOUR REQUEST FOR BUDGET PURPOSES ONLY:

PLEASE NOTE: ANY REQUIREMENTS NOT OUTLINED IN THE REFERENCED SECTIONS ABOVE WILL NOT BE THE RESPONSIBILITY OF FLOWAY

#### OUR QUOTE DOES NOT INCLUDE:

OIL OR GREASE
GAUGES
VALVES
CONTROLS
SPARE PARTS
SALES TAX
START-UP, TRAINING, OR INSTALLATION SUPERVISION

**CURRENT SUBMITTAL LEAD TIME IS 8 WEEKS!** 

#### **COMMENTS & CLARIFICATIONS**

Progress Payment Schedule \$100,000 - \$500,000

10% upon order acceptance 15% upon submission of approval documents 35% upon receipt of materials

40% net 30 days from shipment

SCOPE OF SUPPLY: Materials and construction features specific to this offer are detailed in the attached quote # No assumptions should be made that anything not specifically listed is included Seller is bound only to the specifications and/or documents as referenced in Seller's quote

**SPECIFICATIONS:** The following specifications were received with the inquiry and reviewed in the preparation of our proposal. No other specifications, documents or contracts apply

**VALIDITY:** This offer is valid for 30 days from date issued. Quoted prices will be held firm thru shipment if order is released for manufacture within 60 days from order entry date. Otherwise, a price adjustment may be applied

PRICE: Quoted prices will be held firm through shipment if order is released for manufacture within 60 days from order entry date, and approved for shipment within the leadtime quoted. Otherwise, a price adjustment may be applied. Price quoted is for all items purchased and shipped at one time. In the event of a partial order, we will review and adjust the freight price accordingly. Freight charges will be those in effect at time of shipment. Due to volatility in the commodities markets, Weir Floway reserves the right to add a material surcharge on pipe, plate and other materials in line with the commodity indices. Cost surcharge must be agreed to prior to order acceptance.

#### PAYMENT:

- 1. Net 30 days, from date of invoice
- 2 1 1/2% service charge on past due accounts will apply
- 3 Minimum net billing of \$ 100.00
- 4 Minimum net charge of \$ 100 00 will apply for all change orders that require additional engineering, order processing, and manufacturer's rescheduling
- 5 Due to volatility in the commodities markets, Weir Floway reserves the right to add a material surcharge on pipe, plate and other materials in line with the commodity indecies. Cost surcharge must be agreed to prior to order acceptance.

**FREIGHT:** Freight allowed and prepaid to first destination, continental U.S.A. Shipping terms are F.O.B. shipping point Export shipping and documentation requirements are an option with price adder

**PACKAGING:** For domestic shipment via commercial carrier. Export boxing and documentation requirements are an option with price adder.

SHIPMENT: Approximately 26-30 weeks after receipt of approved purchase order and/or final approval of submittal and drawings

**WARRANTY:** Warranty on Floway manufactured product 12 months after start-up, not to exceed 18 months after shipment All other equipment is sold subject to its manufacturer warranty

START-UP ASSISTANCE: Start-up/assistance not included

**TERMS AND CONDITIONS:** This quotation is based solely upon the terms and conditions set forth herein including attachments. They supersede and reject any conflicting terms and conditions of Purchaser. Any other terms and conditions that Purchaser may propose are subject to requotation.



Weir Floway -Fresno Main Office By Lee Callow



DELAYS: Selier will not be responsible for any delay or failure in performance of any obligations under this agreement including, but not limited to failure to meet a shipment date caused by circumstances beyond reasonable control of Seller or others or the following: Acts of Gcd, the government or the public enemy riots, embargoes strikes or other acts of workmen, casualties or accidents, deliveries in transportation and shortage of cars, fuel, power, labor or material

DELIVERY: All shipments and all prices are F O B Seller's factory or service facility outlet as the case may be on:

(1) Components and parts

(2) Accessories except when the accessory manufacturer's policy is to allow freight provided however that shipment is made directly from such manufacturer's plant

Freight is not allowed on component assemblies and parts, but can be prepaid and charged on invoice with prior approval of seller Seller is not liable for any damage or loss incurred during delivery; all risk of damage or loss to products after carrier takes possession shall be solely on purchaser Purchaser shall inspect shipments upon receipt from carrier and in the event of differences shall file a claim against carrier within the time prescribed by law or contract. Seller will gladly provide assistance in securing claim adjustments upon request. Purchaser should immediately order replacements for those items damaged or lost. Such items will be billed to purchaser's regular account for payment. Reimbursement for damaged or lost items must be from carrier to purchaser on the basis of purchaser's claim.

With regard to items possibly omitted from a shipment, it shall be the responsibility of the purchaser to inspect each shipment upon receipt and notify Seller of any claimed omission within ten (10) days of receipt of such shipment. NO CLAIMS FOR OMITTED ITEMS WILL BE ALLOWED AFTER TEN (10) DAYS OF RECEIPT OF THE SHIPMENT BY PURCHASER

PRICES: All prices for products of Seller's standard design and constructed of standard material are subject to change without notice and all shipments will be involced at the price in effect at the time of shipment except that: A) a purchaser's order for immediate shipment postmarked prior to a given price change, and not then being held for lack of credit approval, will be invoiced at the price in effect at the time of postmark; and B) prices may be negotiated on a firm basis with or without an appropriate escalation clause. Prices are for products of Seller's standard design and constructed of standard materials and there will be no reduction of the omission of any feature. Any requests for variation in material or design must be referred to Seller's factory for special pricing. Pricing of items not covered by the Price and Data Book must be referred to Seller's factory.

Price protection on accessories will be in accordance with that given by the accessory manufacturer

Prices do not include cost of any testing or test reports, or special inspection and/or documentation, except those normally performed by Seller during the manufacturing process or the supplying of any drawings or prints except those currently on file at Seller's factory, unless expressly stated otherwise

Prices for products on non-standard design or non-standard material will be as per Seller's quote and as set forth on the face sheet TERMS OF PAYMENT: Terms of payment are cash, net 30 days, from date of invoice, plus 1-1/2 percent per month service charge on overdue accounts Payment is to be made only to WEIR FLOWAY INC and no other person or firm has authority to collect monies on our behalf Payment by Buyer to Weir Floway, Inc. shall not be contingent upon Buyer receiving payment from the Owner or others Prorata payments shall become due from the date on which Seller is notified of the delay. For export orders, Terms of Payment shall be by Irrevocable Letter of Credit, confirmed by a U.S. Bank, unless otherwise approved by Weir Floway, Inc.

All orders are subject to approval of Seller's credit department. If, in the sole judgment of Seller, the financial condition of buyer at any time does not justify starting or continuing production or shipment on the terms of payment specified herein, Seller may require full or partial payment in advance of production or delivery. Regardless of prices quoted, all orders will be invoiced at established minimum net charge in effect at the time of purchase.

TAXES: The Buyer shall reimburse the Seller for any sales, use, occupation excise or similar tax arising out of the sale upon receipt of the Seller's invoice for the amount of the tax or shall provide the Seller with a tax exemption certificate acceptable to the appropriate taxing authorities

SECURITY AGREEMENT: Seller reserves a security interest in all goods being sold herein and shall have a security interest in all accessions to replacements for and proceeds of such goods, until the full purchase price, plus other proper charges, are paid in full by purchaser. If so requested by Seller, purchaser shall execute all security agreements, financing statements, promissory notes, and other security documents requested by Seller, in the form determined by Seller.

COSTS OF COLLECTION: In the event Buyer defaults in payment of any amount becoming due to Seller hereunder. Buyer shall pay to Seller in addition to the amount due together with Interest thereon, Seller's reasonable costs of collection including attorney's fees and legal expenses, all of which may be made a part of any judgment entered against Buyer

GENERAL: Should any of the terms and provisions of Buyer's order be in any way inconsistent with the terms and conditions herein, the same shall not be binding on Seller and shall not be considered applicable to the sale. No waiver, alteration, or modification of any of the provisions herein shall be binding unless in writing and signed by an executive officer of Seller at its home office in Fresno, California. The failure of seller to enforce any right Seller may have under the terms and conditions hereof or otherwise shall not constitute a waiver of such right with respect to future occasions for enforcement thereof, nor shall any such failure or failures establish any custom or usage. It shall be the obligation of every distributor, dealer, reseller or other person between Seller and the end user to whom such person resells. Seller's products to make known to such end user all warranty and other provisions hereof.

Seller's liability under the sales order shall not include liability for special incidental liquidated or consequential damages and shall not exceed the purchase order value. Motors, engines and other auxiliary equipment may be shipped and billed separately from the pumps

The Sales Order is subject to review and acceptance of Seller's home office in Fresno California and shall be interpreted and applied in conformity with the laws of the State of California

Any legal claim suit, proceeding, or action arising out of or related to this agreement shall be brought in Fresno, California



#### TERMS AND CONDITIONS OF SALE

WARRANTY: Each product manufactured by Weir Floway, Inc. ("Seller") is warranted to be free of defects in material and workmanship for a period of one (1) year after the product is first put into operation or eighteen (18) months after date of shipment whichever is less, when the product is in the hands of the original user and the product has been used properly for the purpose intended; and provided that Seller shall be notified within thirty (30) days from the earliest date on which an alleged defect could have been discovered, and further that the defective product(s) or part(s) shall be returned to the Seller in accordance with the terms of the "RETURN OF EQUIPMENT" section below. Unless expressly stated otherwise, guarantees in the nature of performance specifications furnished in addition to the foregoing material and workmanship warranties on a product manufactured by Weir Floway, Inc. if any, are subject to laboratory tests corrected for field performance. Due to inaccuracies of field testing, if a conflict arises between the results of field testing conducted by or for the user, and laboratory tests corrected for field performance, the latter shall control. No equipment shall be furnished for acceptance based on results of field testing unless such tests are made in accordance with the engineering practices outlined in Section 6.1 through 6.12 (or successor provisions) of the American National Standards Institute Bulletin ANSIAWWA E101 latest edition. Such performance guarantees are void if impellers are trimmed by anyone other than factory personnel or those authorized by Seller Further, guarantees are only for the design point specified and relate only to performance at the time of installation. All accessories and other equipment not manufactured by Weir Floway, Inc. are warranted only for the period and to the extent of the original manufacturer's warranty, and shall be subject to all of the terms and conditions of such warranty. THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

The sole and exclusive remedy for breach of any and all warranties with respect to any product shall be replacement or repair at Seller's election, fo b factory, of such products and/or parts as prove defective. There shall be no further liability, whether based on warranty, negligence or otherwise; no claims for labor or consequential damages shall be payable.

- Unless Buyer clearly shows that none of the following were a cause of an alleged defect, all warranties are void if:

  (a) Pump is handling liquids other than clear, fresh nonaerated water at a temperature not exceeding 85 degrees F, or other such liquids and/or temperature contrary to those specified by other Sales Order;
  - (b) If pump has been handling abrasive material;
  - (c) if pump is slow due to low voltage or other reason beyond control of Seller;
  - (d) If pump is installed in a well or sump which is not sufficiently straight and plumb and of sufficient diameter to allow the pump to hand free and plumb:
  - (e) If pump is damaged from electrolysis, graphitization corrosion or erosion;
  - (f) If air or vapor is allowed to enter the pump section;
  - (g) Parts not furnished by Seller are used in head, bowl or column assembly; or
  - (h) If a foot valve is used without consent of Seller on any unit except the 'WATERMASTER'

Any controversy or claim arising out of or relating to the foregoing warranty, or the breach thereof shall be settled by arbitration in accord with the Commercial Arbitration Rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof. The Parties hereto specifically agree that the provisions of Section 1283 05 of the Code of Civil Procedure of the State of California are incorporated into, made a part of and made applicable to any arbitration hereunder where the aggregate amount in controversy exceeds Twenty-Five Thousand Dollars (\$25,000 00) exclusive of costs, expenses and fees. The parties recognize that the resolution of any controversy or claim hereunder will necessitate testimony by Seller's engineers, all of whom are employed at Seller's home office in Fresno, California. The parties therefore agree that the most convenient place for arbitration is Fresno County, California and that any arbitration hereunder shall be in Fresno County.

ASSIGNMENT: None of the Buyer's rights under any order or agreement shall be assigned by the purchaser or any other person, without the Saller's prior written approval

QUOTATIONS: Formal written quotations subject to change without notice, otherwise firm for 30 days after date thereof, unless otherwise stipulated by written quotation of Seller

RETURN OF EQUIPMENT: No equipment shall be returned to Seller without a Returned Material Authorization (RMA) and shipping instructions first having been obtained from the Seller

In the event such authorization is granted by Seller, the purchaser must pay the charges in full for transportation to the Seller from the purchaser and return and clearly mark each item with the appropriate RMA number.

Credit allowed for new undamaged equipment of current standard design will be reduced by a restocking charge in effect at the time the equipment is returned Equipment which, in the Seller's opinion, shows tool marks or effects of use — however slight — will not be accepted for credit Authorization will not be given for return of material which would in the opinion of the Seller result in an excess in the amount of stock normally carried by the Seller

For equipment not manufactured by the Seller, the only credit as may be allowed by the manufacturer of such equipment, minus all freight and other expenses incurred by the Seller in handling such equipment

CANCELLATION AND/OR CHANGES: Orders shall not be subject to cancellation by purchaser unless agreed to in writing by Seller No cancellation will be accepted by Seller except upon payment to Seller of a reasonable charge, as determined by Seller to cover out-of-pocket costs and all other damages incurred by Seller A minimum cancellation charge of 5% of the order value will be billed for cancellation of any order on "hold for approval" which has not been released for production Any order cancelled after release to production will be subject to a cancellation charge equal to the amount of materials and labor performed on the order OR 25% of the order value, whichever is greater. Modifications or changes to existing orders must be agreed to in writing by Seller and will be subject to a minimum administration charge of \$100.00 plus the net addition or deduction of material and labor.

DOMESTIC & EXPORT PACKAGING: Normal domestic for rail or motor shipment at no additional charge, except when pumps are shipped as units. Please refer to component pricing section for additional charges. Shipment is defined as FOB Seller's factory or service facility nutlet.

Commercial export packaging will be charged for at the rate of an additional five percent of the net price of the shipment. Outer column is normally shipped uncrated but with thread protectors on the ends without couplings. If crating is required for outer column contact factory for pricing.

Weir Floway - Fresno Main Office Quote No 19934



#### **Customer Price Sheet**

Customer:

Project Name:

Powell Kugler, Inc C43 RESERVOIR PUMP STATION

Date: May 18 2006 Quote No.: 19934

Rev: A

Item Number:

Service: Pump Type:

Barrel Pump

Totals	
Unit Price	\$ 368,946
Unit Freight	\$ 14608 (NOT included in Unit Price)
Quantity	3
Total Price (less frt.)	\$ 1,106,838
Grand Total (incl. frt.)	\$ 1,151,112 38,704-1
Price shown is your net o	xost 3 ma

Conditions	
Condition Point:	22,440.0 USgpm@ 40.00 ft TDH
Pumpage:	Water - Clean
Specific Gravity	0.998 SG
Temperature	68.00 deg F
Pump Speed:	590 rpm
Overall Pump Length:	40.00 ft

Ð.	IMA .
FU	IMP
3	
`	Product lube
	1 - 1 STG SBRM 750L BOWL ASSEMBLY*
ŀ	316L SS bowls (ASTM A743-89 Gr CF-3M)
	Flanged bowls
	Bowl bolting - 316SS (ASTM F593 Gr CW1) (ASTM F593 Gr CW1)
	316L SS impellers (ASTM A743-89 Gr CF-3M)
- 1	Finished Impellers
ļ	Dynamic balanced impellers
ļ	Double keyed impellers
	Bowl shaft 3 6875'
	17-4PH cond H1150 bowl shaft (ASTM A564-89 Type 630, Cond H1150)
	Zincless bronze bowl bearings (ASTM B505-91 Alloy 937)
	Suction bell
	Bowls fully assembled
	Column 30" - (0- 20' and 2- 10' and 2- 5' and 1 - 3 45 Top) 316 L SS COLUMN PIPE *
	•
	Flanged (75#)
	316SS (F593-CW1) column flange bolting
	Lineshaft 2 4375*
1	17-4PH cond H1150 lineshaft (ASTM A564-89 Type 630 Cond H1150)
	17-4PH cond H1150 lineshaft coupling (ASTM A564-89 Type 630 Cond H1150)
	Steel bearing retainer (ASTM A216-WCB)
	Discharge head material - Steel (A516-Gr 70 plt A105 flg A53-Gr B pipe)
-	30 X 30.5 X 60 VF DISCHARGE HEAD *
	150# flange (Sti std)
	Standard stuffing box
- 1	Bronze stuffing box bearing (ASTM B505-91 Alloy 932)



#### **Customer Price Sheet**

Customer:

Powell Kugler, Inc C43 RESERVOIR PUMP STATION

Date: Quote No :

May 18 2006 19934

Rev: A

Project Name: Item Number:

Service: Pump Type:

Barrel Pump

	· · · · · · · · · · · · · · · · · · ·
Pι	ımp
COF	Description Section 1997 April 19
	Type CPAT flanged adjustable non-spacer coupling
	Coupling size 3125
	Special coupling guard
	Discharge head extra height
	Standard pressure suction barrel 60" diameter suction barrel x 40 ft
	(2 PC BARREL CONSTURCTION)*
	48" SUCTION FLANGE *
1 1	150# suction flange
	Flow direction vanes
	Non witnessed performance test (bowl assembly) - 3 units
1 1	Documentation - loose
]	Carboguard epoxy coating - Disch head - interior and exterior
1 1	Sherwin Williams KEM AQUA 70P - Red Oxide - Column exterior only
	Sherwin Williams KEM AQUA 70P - Red Oxide - Bowls. exterior only
	Carboguard epoxy coating · Barrel - interior and exterior
1	Sub-assembled components only (bowl head and column lengths separate)
	Domestic packaging
1.	Standard shipping mode

D	river
OV	Description of the state of the
3	Driver type - Motor 300 HP USEM WP-1 3/60/460V 710 RPM VSS MOTOR *
	Vertical solid shaft motor
	High thrust
	Motor bearing life - 1 yr min /5 yr average
	Motor service factor 1 0
	Across the line starting
	Motor BD 24 5 in
	No non-reverse device on motor
	Motor sultable for elevation <= 3300'
	Motor suitable for ambient temperature <= 104 F (40 C)
	Not UL labeled
	Motor domestic packaging
	Motor NOT to be shipped to Floway factory



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ustomer	reference	:	•										Pu	mp	size								: (	SBF	₹M	750	)Ł					
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•	iameter, max						8.43								l se			-												Ste		
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	(bowl / pump						3 09		370	%			Ma	dm	ımı	yor	dipo	pr	ess	ur			-			2.09	9 09		•			
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Stanley Consultants Inc.	Si	ubject	UNIT	PRICE	96"50
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pproved by Date				•	-
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Jim.

I have sized the AquaGuard Model AG-MN-T 4'  $\times$  30'  $\times$  85 DEG  $\times$  6mm screen The budget price for this screen is \$160,000

I have attached the general sales drawing and sizing sheet

If you have any questions please let me know

Sincerely,

Rob

----Original Message----

From: Jim Wahl [mailto:jwahl@mackcompany-fl.com]

Sent: Wednesday, May 17, 2006 9:10 AM

To: Rob Troupe Cc: Russ Cook

Subject: South Florida Water Management District

Rob.

Stanley Consultants is designing a stormwater reservoir near Ft. Myers A large pump station is part of the project. The big pumps are diesel driven using cooling water. The cooling water will be 200 to 5000 gpm depending on how many cooling water pumps are used. Water is pulled from the reservoir through a channel. The channel will be about 25 feet deep and 4 to 6 feet wide. They plan to put a coarse mechanical screen (Duperon) first followed by a fine screen (Parkson.) The water is just surface water runoff during large rain events. They want a recommendation for an AquaGuard Jim.

#### Jensen, Glenn

From: Dreyer, Daniel

Sent: Monday, May 22, 2006 3:28 PM

To: Jensen, Glenn
Cc: Brugger, Wayne

Subject: FW: South Florida Water Management District

Glenn:

FYI - budget estimate for the additional trash screen at teh pump station. This is in addition to the screen and trash rake you already have information for

Please call if you have questions

Dan

From: Roeth, Brad

Sent: Monday, May 22, 2006 2:58 PM

To: Dreyer, Daniel

Subject: FW: South Florida Water Management District

I guess I misspoke regarding the screen estimate Here's an estimate for the screen at \$160,000. This is for a 4' screen. Sounds like you are showing a 6' screen, and flow-wise we only need a 2' screen. I'm not too concerned for 30%, as long as we have it covered in the cost estimate. But we should be careful not to call it a 4' screen in the cost estimate.

On another item, the lubrication pumps were initially sized at 20 gpm. This was increased to 80 gpm after my review. It is really a small item, so it doesn't affect cost much. But we should be careful that the cost estimate doesn't call it a 20 gpm pump.

Brad

From: Jim Wahl [mailto:jwahl@mackcompany-fl.com]

Sent: Monday, May 22, 2006 3:49 PM

To: Roeth, Brad

Subject: FW: South Florida Water Management District

Brad,

Here is Parkson's recommendation for the screen we discussed. Note the water levels and head loss in the sizing. This screen and channel can handle a lot more than 5000 gpm.

Please call me if you have any questions Jim Wahl

From: Rob Troupe [mailto:RTroupe@parkson.com]

Sent: Wednesday, May 17, 2006 5:43 PM

To: Jim Wahl
Cc: Russ Cook

Subject: RE: South Florida Water Management District

STANLEY CONSULTANTS
Computed by: D Dreyer
Checked by:
Approved by:
PS1 Excavation and Cofferdam Qty xls

Date: May 20 2006 Date:
Date:

Sheet No
Job No 1730009
C43PS1
Excavation and Backfilling
Quantities
1 of 1

WHE'E WHE'E

Excavation and Backfilling Quantities								
Description	Length	The second second second		Numb	al ary			Weight
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LE 17 00 10 EL 300 KIUSE AS BACKFILL	358 - 0 00	235 - 0 00	20 - 0 00	1	1682600 0	023185	DRY	
EL 17 00 to EL -3 00 QEUSE AS BACKFIL  EL -3 00 to EL -32 00 Pump Station Suction Basin Total	- 278 - 0 00 213 - 0 00	107 - 0 00 48 - 0 00	29 - 0 00 29 - 0 00	1 1	862634 0 296496 0	319494 (0981.3 405249.3	i	
Gofferdam Shoot Dile (Fig. 1)								
Sheet Pile/Tiebacks Sheet Pile Tie Rods Wales Misc. Steel Anchor Wall	866 - 0.00 30 - 0.00 866 - 0.00	1 - 0 00 1 - 0 00 1 - 0 00	44 - 0 00 1 - 0 00 1 - 0 00	1 87 2	2598.0 1732.0	59 FT	24.17 7.65 25	460.5 9.9 21.7
Concrete Add for waste Total Concrete	1106 - 0 00	2 - 0 00	7 - 600	1	16590.0	614.4 30.7 645.2		n.th
Anchor Wall Reinforcing					51 4	*	490	42.6
Tremie Concrete (EL -32 00 to EL -22 00) Pump Station	ami				Ì			
Suction Basin Total	278 - 0 00 213 - 0 00	107 - 0 00 48 - 0 00	10 - 0 00 10 - 0 00	1	297460 0 102240 0	11017.0 3786.7 14803.7		
Backfilling				www			MATTAC	
EL -22.00 to EL -3 00 Pump Station Suction Basin Subtract Volume Displaced by Base Slab Subtract Volume Displaced by Wall Preimeter	278 - 0 00 213 - 0 00 193 - 0 00 185 - 0 00	107 - 0 00 48 - 0 00 108 - 0 00 118 - 0 00	19 - 0 00 19 - 0 00 6 - 0 00 13 - 0 00	1 1 -1 -1	565174 0 194256 0 -125064 0 -283790 0	20932.4 7194.7 -4632.0 -10510.7		
EL3 00 to EL. 7 00 Total Volume above EL -3.00 Subtract Volume Displaced by Wall Preimeter	- 358 - 0 00 185 - 0 00	235 - 0 00 118 - 0 00	10 - 0 00 10 - 0 00	1 -1	0 0 841300 0 -218300 0	0.0 31159 3 -8085 2	ļ	
El. 7 00 to EL 17.00 Total Volume Above El. 7 00 Subtract Volume Displaced by Base Slab Subtract Volume Displaced by Pump Station Subtract Volume Displaced by Suction Basin	358 - 0 00 258 - 0 00 252 - 0 00 185 - 0 00	235 - 0 00 87 - 0 00 84 - 0 00 58 - 0 00	10 - 0 00 3 - 0 00 7 - 0 00 7 - 0 00	1 -1 -1 -1	0.0 841300.0 -67338.0 -148176.0 -75110.0	0.0 31159 3 -2494 0 -5488 0 -2781 9		
Subtotal Add for Shrinkage (20%)				1		56453 8 11290 8		
Total Backfill				1		67744.5	<b>F</b>	

OHSIL

WELL POINT 1266LF

 $\bigcirc$ 

	Manufacturer	Quantity	Unit Price	Delivery Cost	Delivery Time
Boll Filter bousing: ABMAM60 W					21111
	BLC Industries	8			
I oliver: EMERSCHOOL SENS SKIM 1/2" Polyester - synthetic scrim backed	BLC Industries	8	\$6,250.096	\$2,890.00	8-9wks
I of more El Eggental (Lade County) Hurncane type 90"h X 48"w	Ruskin	9	\$2,950,00		
Chart El Fesebull Wind-drive rain resistant type 78"h X 78"w	Ruskin	8	\$140000		
Fouver: ELFOSDUMP Wind-drive rain resistant type 54"h X 54"w	Ruskin	4	\$800.00		7-8wks
Ear. SPC 20170 450 C	Ruskin	2	\$900.00	-	
Earl ODG 2177-100 - Supply type	Greenheck	œ			
Fail ODOE-3L/2-13U - Exhaust type	Greenheck	8			
Fan. SBCE-3H36-50 - Exhaust type	Greenheck	0	\$75,500,00		ć
Fan: SP-B80 - Exhaust type	Greenheck	1 4	, , , , , , , , , , , , , , , , , , ,		SWKS
Fan: SQ-85-D - Exhaust type	Greenheck	-			
Air handling unit: TWE031E130A	Trans	- -			
Air cooled condensing unit: TTP018C100A	Trana	- -			
Air cooled condensing unit: TTP024C100A	Tallo		\$4,000.00		
Plenum: Supply Fans - TG-tyne toulaile and group, 20050, FT. 410 20	I ane	L		-	
Plentim: Exhairst Fans TC time tolicing and gloove 2303Q.F (X \$10.50	McGill	8	\$39,072.00		
Plenum door: 24w X 36h	McGill	2	\$3,168.00	\$1.400.00	4-6wks
Sheet metal dictatoric Informational in the	McGill	2	\$600.00	•	
Air devices: willer different lined insulation	McGill	671.5lbs			
Pilmbing: water along	Titus		\$735.00		5.Amke
Plimbing exatory	American Standard	2	\$350.00		
Dimping: ebower	American Standard	2	\$250.00		
Dimbing: source and	American Standard	1	\$550.00		
Plimbing, scratches sink	American Standard	1	\$650.00		
Plimbing floor drain	American Standard	2	\$250.00		
Plimbing: water bester 40cci	American Standard	3	\$100.00		
40 4 P.O. 1	State	1	\$300.00		
Plimbing Damestic water and of 1881 190, less than 4"-50"					
remails: Comestic water piping z -100, less than z'-50'				***************************************	

MISSLE ISARPLEAR

6,5x6,5x8=338 4,5x4,5x4=81 4x5 x2=50

#### Rectangular Ductwork Sizing

width	height	length of run	surface area	gauge	lb/SF	lb
in	in	ft	ft			
efet kilkkis	i ka bida	Maria	0.0	26	1 04	0.0
12	10	95	348 3	24	1 27	442 4
6	6	30	60 0	26	1 04	62 4
14	6	12	40 0	24	1 27	50 8
16	10	12	52 0	24	1 27	66.0
8	8	18	48 0	26	1 04	49 9
			00	26	1 04	0 0
6.040 awar 2005			0.0	26	1 04	0.0
			0 0	26	1 04	0.0
			0 0	26	1 04	00
<i>Water</i> H		COMPOSITO VIVINE II. ANCO SWOOD DICOPORTIFO	0 0	26	1 04	0.0
			0 0	26	1 04	0 0
			0 0	26	1 04	0.0
219 WAR 181			0 0	26	1 04	0 0
		<b>计制设备的基</b>	0 0	26	1 04	0.0
			0 0	26	1.04	0 0

Total Weight of Run

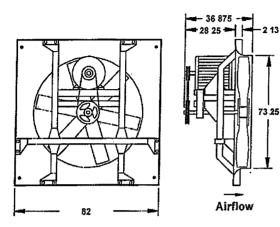
6715



MARK: exhaust

#### SBCE

#### Sidewall Cast Aluminum Belt Drive Exhaust Fan



#### **CONSTRUCTION FEATURES**

· Galvanized steel fan panel · Die formed, galvanized steel drive frame assembly · Cast aluminum airfoil blade propeller • Adjustable motor pulley • Ball bearing motors • Fan shaft mounted in ball bearing pillow blocks • Static resistant belts • Corrosion resistant

#### **SELECTED OPTIONS & ACCESSORIES**

Bearings with Grease Fittings Two Groove Pulley and Belt System Energy Efficient Motor meets EPACT and NEMA 1210

NOTES: All dimensions shown are in units of inches Fan weight is without accessories

DIMENSIONS

Approx. Fan	Recommeded Roof/Wali
Weight (lb)	Opening (in)
1,300	74 5 x 74 5

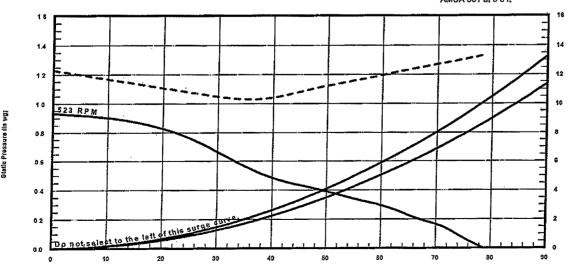
PERI	FORMANCE (Elevation	ft = 0, Airs	tream Tem	perature	°F = 70)						
			"					Motor	Information		
Qty	Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Size (hp)	V/C/P	Encl:	Motor RPM:	Windings	FLA (A)
1	SBCE-3L72-100	51,700	0.375	523	11.36	10	460/60/3	ODP	1725	1	14.0

SOUND										
		Inlet So	und Powe	Lwa	dBA	Sones				
62.5	125	250	500	1000	2000	4000	8000	LWa	UDA	Sories
107	105	101	97	93	88	84	82	99	88	59

FI.A - Based on tables 150 or 148 of National Electrical Code 2002

Power (hp) (dashed lines use this axis

LwA - A weighted sound power level, based on ANSI S1 4 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5 0 ft. Sones calculated using AMCA 301 at 5 0 ft





Volume (CFM) x 1,000

JOB: flfan

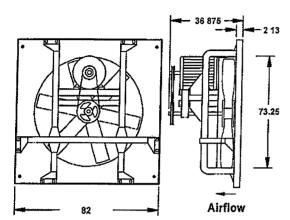




**MARK: 001** 

#### SBS

#### Sidewall Belt Drive Supply Fan



#### Tag: 001 CONSTRUCTION FEATURES

• Galvanized steel fan panel • Die formed, galvanized steel drive frame assembly • Fabricated steel propeller for Levels 1 and 2, welded and painted steel for Level 3 • Adjustable motor pulley • Ball bearing motors • Fan shaft mounted in ball bearing pillow blocks • Static resistant belts • Corrosion resistant fasteners

#### **SELECTED OPTIONS & ACCESSORIES**

Bearings with Grease Fittings Two Groove Pulley and Belt System Energy Efficient Motor meets EPACT and NEMA 1210

NOTES: All dimensions shown are in units of inches Fan weight is without accessories

#### DIMENSIONS

rŦ	Annan Fan	D
	Approx. Fan	Recommeded Roof/Wall
	Weight (lb)	Opening (in)
	1:050	74 5 x 74 5
	1,000	1 1 2 X 1 3 Y

PERFORMANCE - (Elevation ft = 0, Airstream Temperature °F = 70)

		Volume SD (in				Motor Information						
Qty	Model	Volume (CFM)	SP (in wg)	FRPM	Operating Power (hp)	Size (hp)	V/C/P	Encl:	Motor RPM:	Windings	FLA (A)	
1	SBS-3H72-150	54,400	0.75	506	13.74	15	460/60/3	ODP	1725	1	21.0	

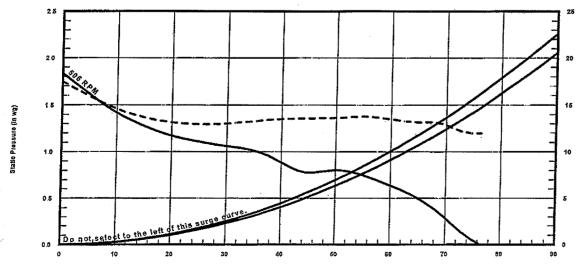
SOUND

DUUKD											
		Inlet So	und Powe	er by Octa		Luc	424	Canaa	ı		
62.5	125	250	500	1000	2000	4000	8000	Lwa	dBA	Sones	ĺ
105	103	100	96	91	88	85	83	98	87	56	L

FLA - Based on tables 150 or 148 of National Electrical Code 2002

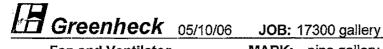
Power (hp) (dashed lines use this axis)

LwA - A weighted sound power level, based on ANSI S1 4 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5 0 ft. Sones calculated using AMCA 301 at 5 0 ft.





Volume (CFM) x 1,000



Fan and Ventilator

MARK: pipe gallery

2-00

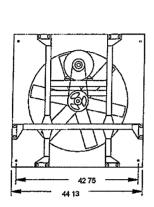
SBCE

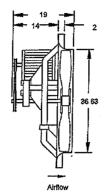
#### Sidewall Cast Aluminum Belt Drive Exhaust Fan **CONSTRUCTION FEATURES**

Galvanized steel fan panel
 Die formed, galvanized steel drive frame assembly
 Cast aluminum airfoil blade propeller
 Adjustable motor pulley
 Ball bearing motors
 Fan shaft mounted in ball bearing pillow blocks
 Static resistant belts
 Corrosio



Two Groove Pulley and Belt System Bearings with Grease Fittings





NOTES: All dimensions shown are in units of inches Fan weight is without accessories

#### **DIMENSIONS**

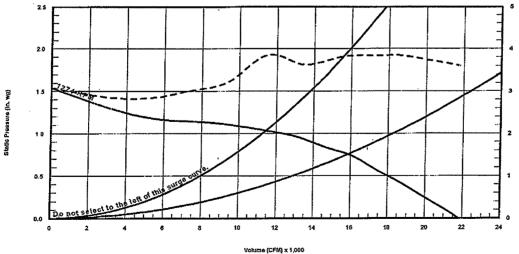
Damper Size (in )	Appro. Fan Weight (lb.)
38 x 38	260

DEDECORMANCE

	LEVE	CKINANCE (Elevation)	<u>. – v, Ausu</u>	can remp	cialuic i	- 10)					
	04.	Madel	Volume	SP (in	FRPM	Operating			Motor Informa	tion	
l	Qty	Model	(CFM)	wg)	FREW	Power (hp )	Size (hp.)	V/C/P	Enclosure	Motor RPM:	Windings
	1	SBCE-3H36-50	15,834	0 75	1,274	3 81	5	460/60/3	ODP	1725	1

SOUND										
		Inlet So	und Powe	1	dBA	0				
62.5	125	250	500	1000	2000	4000	8000	Lwa	UDA	Sones
88	90	93	93	94	91	83	77	97	86	45

LwA - A weighted sound power level, based on ANSI S1 4 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per octave band at 5 0 ft Sones calculated usi





#### Lange, Alan

From: Brad Forret [brad@products-inc com]

Sent: Tuesday, May 23, 2006 10:02 AM

To: Lange, Alan

Subject: C43 Pump Station

Alan,

Here is the information you requested

Budget pricing for 21 fans per attached submittal is \$75,701.00

Current lead time for all the fans are approximately 3 weeks

Please let me know if you have any questions

Thanks,

Brad Forret Products, Inc 1429 2nd Avenue Des Moines, IA 50314 515-288-5738 Phone 515-288-2574 Fax brad@products-inc com

PRODUCT DATA AUTO-LINE™ SERIES ARV PD-ALARV-03A JANUARY 2003

**AUTOMATIC** AIR **FILTRATION EQUIPMENT** 

#### **AUTO-LINE™ SERIES ARV**

**AUTOROLL - VERTICAL** 

Engineered by dedicated personnel with years of experience and hands on application expertise, the AUTO-LINE Vertical AutoRoll is designed for the marketplace of tomorrow Manufactured with innovative features and options - for a wide range of uses requiring plenum or open-air return systems the quality, practicality and economy

of this design are immediately obvious to those involved in the purchase, installation and application of air filtration equipment

BLC's Vertical AutoRoll has been designed as a completely factory assembled unit This unit requires only minimal field labor to install A wide variety of system CFM capacities along with easy to handle section widths and heights allow for quick installation Complete, 100% factory assembly reduces expensive field labor and cuts supervision costs

Rugged, modular AutoRoll construction that is compatible to HVAC system installation is another objective in the design of the Vertical Automatic Filter Ihe main frame is die formed into a channel section that incorporates the media guides as an integral part of the frame When joined to the top and bottom panels, this

or at installation

The entire unit is constructed of 16 gauge aluminized steel, offering improved product appearance and better corrosion resistance when

compared to galvanized steel. Aluminized steel is used in automotive mufflers, tail pipes, oven liners and incinerators where heat and condensation create the worst case conditions for corrosion to form Metals that withstand these conditions and also conform to ASIM Specification

A463 tolerate greater

temperatures and are more expensive than lesser ones. Manufacturing the Vertical AutoRoll from 16 gauge aluminized steel emphasizes BIC's total commitment to quality

Moreover, the main objective in the design of the AUTO-LINE Vertical AutoRoll is to provide the end user with a product that is totally reliable, economical, practical and easy to use This unit requires only the replacement of the exhausted media roll when necessary All of the drive components are permanently lubricated — for life! The rollers and bearing surfaces use oil lite bushings and high impact plastics Components are

carefully manufactured to exacting tolerances. And, after completion, the entire unit undergoes a rigorous inspection by BLC before shipping. All of this results in a product that provides minimal installation time, reduced maintenance costs and a dependable, warranted service life

provides rigid structural support that prevents the twisting or bowing of the unit during shipment

Corporate Headquarters P.O. Box 14187

Louisville, Kentucky 40214 Phone: (502) 366-6002 Fax: (502) 366-6255

8

E-Mail: askus@blcind.com

**BLC-West** Phone: (480) 839-5333 Fax: (480) 839-1584

www.blcind.com

We reserve the right to make changes in product design and product specifications without prior notice or obligation

INDUSTRIES INC.

Breathe Easy, We Have The Line On Air Filtration

Auto Roll - seenonwidher - - rae CEAN MEDIA 2 AS OPRIONAL STREET OF THE CONTROL STREET OF CSED MEDIA**

STANDARD OUTSIDE

BROW ELEVATION:

CONTROL FOR PROVIDED

CONTROL FOR PROVI SIDE ELEVATION

MODEE NUMBER KEY ARVOSV 10

## Capacity Chart In CFM @ 500 FPM through net effective Media area.



WIDIH						_					W		100					exercise de la constante de la	Lower W. Sales III
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CODE		U				100000		4			1	2 - 4'	1 - 4		2 - 5	1 - 5'	100 mg 74 6000	1 - 4'	-
SECTION	I	f	l .			1 - 3'		1 -4'	2 - 5	1 - 5'	2 - 6'		а • •	3 - 5"	17 71	2 - 6'	3 - 6'	3 - 5'	4 - 5'
WIDTHS	1-2	1 - 3'	1-4	1 - 5'	1 - 6*		-	1						27600		31770	33855	34720	36800
V060	1	5035	7120	9200	11285	12155	14240	16320	78400	20405	2/830	25780	28070	30360	32655	34950	37245	38190	40480
(2) sv655	4	5540	7820	10120			15000	1/950	22000	2/580	27080	28120	30620	33120	35620	38120	40620	41660	44160
UL VOZO	3960	6040	8540	11040	13540	14580	<u> </u>	<del></del>	_									45135	47840
(C) 2V025	4290	6545	9255	11960	14670	15800	18510	21215	23920		29340					1		48605	
22 ± V080	4620	7050	9965	12880	15800	17015	19930	22845	25760	28580	37600	32819	20200	38640 41400		1		52080	
- V085	4950	7555	10680	13800		L		24480						ļ		<del></del>			
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PRODUCT
DATA
FILTER-LINE
SERIES SRM
PD FLSRM-03B
EPTENBER 2003

#### FILTER-LINETM

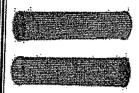
#### SERIES SRM

1/2" POLYESTER -- SYNTHETIC SCRIM BACKED ROLL MEDIA Alt Filters

MERV 4

Minimum Efficiency Reporting Value

#### Description



The FILTER-LINE™ Series SRM — 1/2" Synthetic Roll Media is produced from virgin polyester fibers. The media is a graded density blanket and all polyester fibers are bonded by a thermo setting bonding agent. Media will yield a minimum thickness of 1/2" when unrolled in the air stream. The media is charged with a gel-type adhesive to effectively trap and hold dirt particles. The entire media blanket is reinforced by a fabric scrim netting, which maintains media configuration. The 65 feet long roll is provided with trailers and leaders for ease of installation. SRM Roll Media is available for all types of Roll Filter machines.

#### ... Construction

#### VIRGIN POLYESTER FIBERS

Series SRM Media is produced from virgin polyester fibers which are bonded by a thermo setting bonding agent to form media. Media has a dry weight of @ 5.5 ounces per square yard GRADED DENSITY MEDIA.

Series SRM Media is progressively denser from the air-entering to the air-leaving side. Fiber diameters begin at 40 denier on the clean side and reduce to 25 denier on the air-leaving side.

GEL-TYPE ADHESIVE

Series SRM Media is charged with an odorless, non-toxic gel adhesive to trap and hold dirt particles. The gel adhesive is a high viscosity product. It will not blow off the media into the air stream

#### FABRIC SCRIM NETTING

Series SRM Media is fully supported on the downstream side of the media with a fabric scrim netting. This reinforcing backing is totally secured to the media and maintains media configuration MEDIA TRAILERS AND LEADERS

Series SRM Media is supplied with a heavy duty trailer and leader to assist in the installation of the Roll Media. Trailers and leaders are securely sewn to the SRM Media blanket.

ASHRAE TESTED MEDIA

Series SRM Media has been thoroughly tested by independent testing laboratories in strict accordance with current ASHRAE Standards for air filters. Test reports are available upon request

#### . Dimensional Data

AIRMA	ZE-TYPE
MODELIN	2 SIZE
AIR20	20:1/2!
AIR32	32-1/2
AIR44	44 1/2"
AIR56	56 1/2"
AIR68	68 1/2"

,				_
CAMBR	IIDe	E-T	YPI	Ε.
MODEL	VO:	HIN'S	ZΕ	e est desc
CAM2	455	23	3/4	100
CAMS:	3	32	3/4	end.
CAM4	S SE	44	3/4	3
Z CAM5				
CAM66	Oleien.	65	3/4	
CAM69		68	3/4	

FARR-TYPE
MODEL-NO. ISSIZE
FAR09 8 3/4/
FAR15 14-3/45
FAR21 20 3/4"
FAR27 26 3/4
FAR33 = 32 3/4
FAR89 38 3/4
FAR45 44 374"
FAR51 50 3/4
FAR57 56 3/4"
FAR69 68 3/4"

AMERICAN-TYPE
MODEL NO SIZE
AME20 20 1/25
AME22 22 1/4"
AME25 24 7/8"
AME32 31 7/8"
AME33 32 3/4/4
AME38 38 1/2"
AME40 39:7/85
AME45 44 3/44
AME57 56 3/42
AME69 68 3/4"

TRANE-TYPE
MODEL NO. SIZE
TRA19- 119 1/2"
21 1/8"
TRA25 25 1/2"
ESTRABLES DESIGN
TRA35 35"
TRA38 38 3/8
TRA45 44 7/8"
TRA50 49 3/4
TRA54 53 7/8"
TRA59 58 3/4"
TRA61 61 1/8"
TRA63 62 3/4"

Trade names shown are
used for reference
purposes only

BLC-TYPE						
MC	DE	NO	<b>3)</b>	SIZ	E	
A STATE	BLC	25		24:5	/8#u	
ARCHITE WENTER	BEC	35		4 5	<b>/8</b> ****	
of c	BEC	39#	M.R	8 5	/8!	
126 I	31-C	47.	3 2	B 5	R	
961	31:0	59	25	8 5	(A.	
1445	110	71	1 7	n s	Que	

CO	TINE	NTA	L-T	PE
	DEU			E
C	<b>ON22</b>	糖素	21:7	/8:
	<b>ON32</b>		31.7	(8"
C.	QN36		5.7	<b>/8</b> !
#C	<b>ON44</b>		3.7	8"
ME	<b>ON56</b>		5.7	84
E C	<b>ON68</b>	6	787	8:

CARRIER-TYPE
MODEL NO SIZE
CAR23 23 3/8"
CAR26 26 1/4"
CAR34 34 3/8"
CAR37 37 1/4"
CAR44 43 7/8
EAR47 47 1/4"
CAR58 57 7/8"
CAR61 61 1/4/
CAR68 67.7/8"

MINE SA	FE	TY-	TYPE
MODEL	VO:	225	IZE*
MIN21			14 15 8822
MIN27	432	300	7.00
MIN33	KORONON JUNEAU		34
SEMIN39	1994	STANCE OF	91
MIN45	AHAH:	3314	5 Roper
MIN51	DACK:	<b>***5</b>	1 Mileton
MIN57	COLUMN COLUMN	- 5	72
MIN63		6	3#
MIN69	g Units	6	9******
CHARLESTON AND AND AND	vanat.a		4.004

#### MODEL NUMBER KEY FLSRMBLC47

Insert model number prefix to complete model number

FL- FILTER-LINE™

SRM- Synthetic, Sorim Backed 1/2' Media
BLC- BLC Industries, Inc. Type Core

37.7/81 47- Core Width

		Pe	erformand	e Data	
SERIES	PEGIG	TIAL	RFR	EFFICIENCY &	MERV
SERIES	@ 300 FPM	@ 500 FPM	RECOMMENDED FINAL RESISTANCE	ARRESTANCE VALUES	VALUE
® SRM	NS 10 %	182		<20% EFF - 75% ARR	MERV4

BLC Industries, Inc P O Box 14187 Louisville, Kentucky 40214 Phone: (502) 366-6002 Fax: (502) 368-6255

E-Mail: askus@blcind.com

BLC-West Phone: (480)839-5333 Fac (480)839-1584

#### www.blcind.com

We reserve the right to make changes in product design and product specifications without prior notice or obligation.



Brooks Favor We Have Shad in Con Air Fillmation

#### Lange, Alan

From: Ed Case [edcase@blcind com]

Sent: Wednesday, May 24, 2006 9:17 AM

To: Lange, Alan

Subject: AUTO-LINE Vertical Autoroll

Allen – here is pricing as requested I have also provided a cost add for factory installation in a BLC manufactured plenum with a secondary filtration stage Call or respond THANKS!

(8) AUTO-LINE Vertical AutoRoll 14ARV160 (76,565 CFM @ 500 FPM) \$6250 00 EACH Attachment Dimensions: 156" Width x 160" Height x 24 1/4" Depth

- Standard Air Flow
- Inside Drive -- 1/9HP Motor
- 120Volt 60 Hertz 1 Phase
- NEMA 1 Controls
- · Factory Assembled and Wired
- Timer with Pressure Media Advance Override
- · Manual advance push button
- · Media Run-out Switch
- · Media Run-out Signal light
- · Integral Grid for Media Integrity
- · Standard Fasteners & Hardware
- Initial Media Roll

Add - Factory Manufactured Plenum w/Mounted ARV & Safety Lights Plenum provides 2nd & 3rd Stages for ASHRAE 30% to 95% Filtration

\$8695 00 EACH Photo Attachment

Add for Roll Covers - 8% to AutoRoll Unit Price

Delivery: 8-9 Weeks ARS FOB: Louisville, KY 40214

Prepaid & Add Freight - Direct LTL Point - Ft Lauderdale, FL - \$2890 00

**Ed Case** 

Phone: 502-366-6002 Fax: 502-366-6255 E-mail: edcase@blcind com www.blcind.com

No virus found in this outgoing message Checked by AVG Free Edition

Version: 7 1 385 / Virus Database: 268 5 1/326 - Release Date: 4/27/2006

No virus found in this outgoing message Checked by AVG Free Edition

Version: 7 1 392 / Virus Database: 268 5 3/331 - Release Date: 5/3/2006

No virus found in this outgoing message Checked by AVG Free Edition



64-48"490"



**Greaves Rd** 

Kansas City, MO 64030

(816) 761-7476

FAX (816) 765-8955

#### EME6625D WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER

MIAMI-DADE APPROVED

MIAMI-DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE NUMBER: 01-0912.02 (EXPIRES 1/28/07)

#### STANDARD CONSTRUCTION

#### LOUVER FRAME

6" (152) deen, 6063T5 extruded aluminum with 125" (3 2) nominal wall thickness

#### LOUVER BLADES

6063T5 extruded aluminum .081" (2 1) nominal wall thickness Blades are mounted vertically

#### **BIRD SCREEN**

1/2" x 063" (13 x 1 6) square mesh aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth

#### INSTALLATION CHANNELS

1/8" (3) thick formed aluminum Universal Installation Channels are provided enabling the EME6625D Louver and EME6625D/CD50 Louver/Damper Combination unit to be installed in most wall systems. Standard channel depth is 81/4" (209) for CMU block wall system. However, the channels may be ordered in various depths to accommodate other wall systems

#### FINISH

Mill

#### MINIMUM SIZE

12"w x 12"h (305 x 305)

#### APPROXIMATE SHIPPING WEIGHT 12 lbs per sq ft (58 6 kg/m²)

MAXIMUM SHIPPING SECTION SIZE 48°w x 96°h (1219 x 2438)

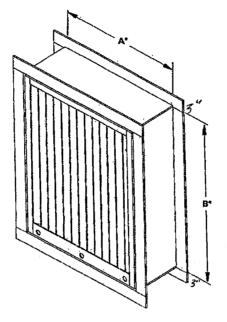
#### MAXIMUM OVERALL ASSEMBLY SIZE

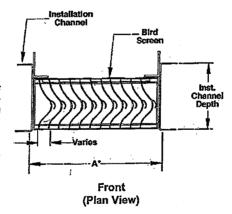
Unlimited width x 96"h (2438) with or without damper Overall assembly consists of individual sections combined in the field (combination of sections in the field not by Ruskin)

#### INSTALLATION

The EME6625D must be installed per the appropriate Installation Detail. Reference the appropriate separate Installation Instruction Sheets

Consult Ruskin for additional information





#### **FEATURES**

- · Approved for use in open structures without provisions to manage weather infiltration (dry rooms) up to 33' (10 06m) above ground level
- Approved for use in open structures with provisions to manage weather infiltration (wet rooms) over 33' (10 06m) above ground
- Approved for use in closed structures without provisions to manage weather infiltration (dry rooms) over 33' (10.06m) above ground level when combined with optional CD50 control damper
- · Approved for use in closed structures with provisions to manage weather infiltration (wet rooms) over 33' (10.06m) above ground level when combined with optional CD50 control damper.
- Maximum windload with and without damper +160 PSF (7 66 KPa), -140 PSF (-6 70 KPa)
- 42% Free Area
- · Published free area and pressure drop performance ratings based on testing in accordance with AMCA Publication 500-D
- Optional finishes available at additional cost: prime coat, baked enamel (modified fluoropolymer) epoxy, Pearledize, Kynar, clear and color anodize. (Some variations in anodize color consistency is possible
- On EME6625D/CD50 Combination Units. the CD50 Damper and sleeve are shipped separately and must be combined with the EME6625D in the field (combination of louver/damper not by Ruskin)

*Please provide Rough Opening Dimensions for "A" and "B" dimensions Unless ordered as actual size, the Installation channels will be provided 1/4" (6) smaller than the "A" and "B" dimensions provided. To allow clearance for the installation channels, louver width and height will be 3/4" (19) less than the rough opening dimensions

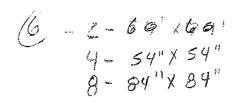
Installation Channels for louvers ordered as Actual Size will not be undersized. Order acknowledgements for actual size orders or orders with engineering drawings may show actual louver frame dimensions less installation channel thickness

AK ABOUT

Dimensions in inches, parenthesis (	) indicate millimeters
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TAG QTY. SIZE  A*-WIDE B*-HIGH	SIZE		INST.	PRESSURE DRUP THILLY VARIATIONS BILL SCREEN		
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A AL I



**RUSKIN®** 

3900 Dr. Greaves Ro

Kansas City, MO 64030

(816) 761-7476

FAX (816) 765-8955

#### ELEGISODMP DRAINABLE STATIONARY FOUVER

EXTRUDED A LUMINUM

#### STANDARD CONSTRUCTION

#### FRAME

6" (152) deep, 6063T5 extruded aluminum with .125" (3.2) nominal wall thickness. Downspouts and caulking surfaces provided

#### BLADES

5053T5 extruded aluminum with 081" (2.1) nominal wall thickness. Drainable blades are positioned at 35" angle and spaced approximately 4" (102) center to center

#### SCREEN

3/4" x .051' (19 x 1.3) expanded flattened aluminum bird screen in removable frame. Screen adds approximately 1/2" (13) to louver depth.

#### FINISH

Mill

#### MINIMUM SIZE

12"w x 12"h (305 x 305)

#### APPROXIMATE SHIPPING WEIGHT

6 lbs. per sq ft (29 3 kg per m²)

#### MAXIMUM FACTORY ASSEMBLY SIZE

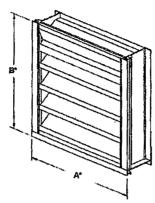
Shall be 75 sq ft. (7m²) per section not to exceed 120°w x 90°h (3048 x 2286) or 90°w x 120°h (2286 x 3048)

Louvers larger than the maximum factory assembly size will require field assembly of smaller sections

#### SUPPORTS

Louvers may be provided with rear mounted blade supports that increase overall louver depth depending on louver size assembly configuration or windload

Consult Ruskin for additional information



Bird

#### **FEATURES**

The ELF6350DMP offers:

- 58% Free Area
- Beginning point of water penetration above 1 250 fpm free area velocity
- Published performance ratings based on testing in accordance with AMCA Publication 511.
- High performance frame system with drainable head collects and removes water to provide excellent water penetration performance
- Drain gutter in each blade minimizes water cascade between blades
- Continuous blades up to 120° (3048)
- All aluminum construction for low maintenance and high resistance to corrosion

#### **VARIATIONS**

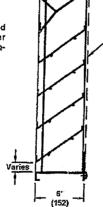
Variations to the basic design of this louver are available at additional cost. They include:

- Extended sill
- · Hinged frame
- . Front or rear security bars
- · Filter racks

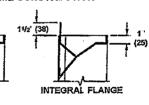
STANDÁRD

- · A variety of bird and insect screens
- Selection of finishes: prime coat baked enamel (modified fluoropolymer) epoxy, Pearledize 50 & 70, Kynar, clear and color anodize. (Some variation in anodize color consistency is possible)

Consult Ruskin for other special requirements



#### FRAME CONSTRUCTION



Dimensions in parenthesis ( ) indicate millimeters

*Units furnished 1/4' (6) smaller than given opening dimensions

TAG QTY	TAG	QTY.	SIZ	Œ	FRAME	VARIATIONS	
		A*-WIDE	B*-HIGH				
			<u></u>				
PROJE ARCH/					LOCATION CONTRACTOR DATE		

#### QUOTATION **BOWMAN AND ASSOCIATES**

Date: 5/24/06

3802 34th St. Moline, IL 61265 Ph: 1-309-762-1537 Fax: 1-309-797-4900 Project: Budget Pricing

To: Stanley Consultants

Alan Lange

Ruskin louvers, box frame, bird screen, sill extensions, kynar 500 finish

EME6625 90"x48"	\$2,950.00
EME745 78"x78"	\$2.500.00
EME745 60"x60"	\$1.550.00 \ NOT USER
EME745 54"x54"	\$1.350.00 )
ELF6350DMP 78"x78"	\$1,400.00
ELF6350DMP 60"x60"	\$900.00
ELF6350DMP 54"x54"	\$800.00

Thank you, Bowman and Associates

Terms: Net 30, 1.5% added per month after 30 days FOB: Factory, freight allowed, not unloaded

Delivery: 7-8 weeks.

WARRANTY IS 1 YEAR PARTS ONLY, NO LABOR.

All proposals are contingent upon strikes, accidents, clerical errors and delays beyond our control. All prices subject to approval of the home office. All prices do not provide for any taxes. Any taxes that may be applied shall be born by the purchaser. All proposals

#### Lange, Alan

From: Swanson, Noah K [nkswanson@trane com]

Sent:

Wednesday, May 24, 2006 8:23 AM

To:

Lange, Alan

Subject: RE: Cost estimate

Hello,

Budget price \$4000 total for all 3 units

Thanks,

noah

Noah Swanson

Trane Company
Davenport Commercial Sales Office
internet: nkswanson@trane com

voice: 563 468 4900 fax: 563 391 0277

----Original Message----

From: Lange, Alan [mailto:LangeAlan@stanleygroup.com]

Sent: Tuesday, May 23, 2006 5:09 PM

To: Swanson, Noah K. Subject: Cost estimate

Noah,

Can you give me a cost for:

Air handling unit: TWE031E130A
Air cooled condensesing unit: TTP018C100A
Air cooled condensesing unit: TTP024C100A
Delivery cost to Ft Lauderdale, Fl
Delivery time to Ft. Lauderdale, Fl

Alan

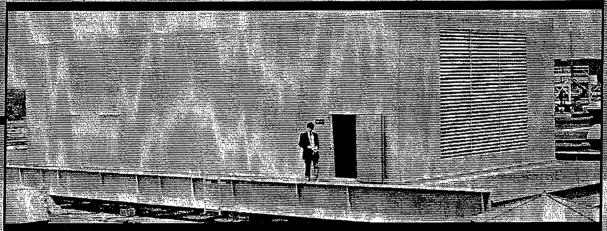
Senior Designer 563-264-6443 I angeAlan@stanleygroup com

Stanley Bldg 225 Iowa Ave Muscatine, IA 52761



4105016

United McGill® products



A McGill AirSilence product

# DESSIRES ENGISERS

FOR HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT

McCill Airsilence Llc

An enterprise of United McGill Corporation — Founded in 1951

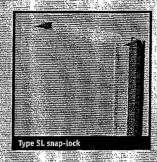
#### **Panel Systems**

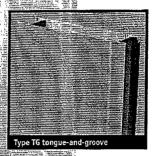
#### Type SI— Snap=Lock

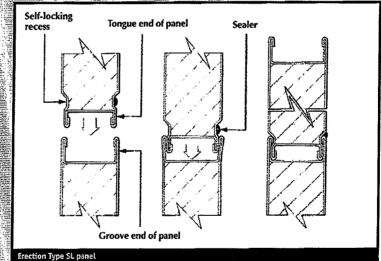
Aspecial built-in connection system allows the Type St panels to snap lock together, forming a low-leakage, structurally sound, full-length joint. This mechanical interlocking joint requires no sheet metal screws. The three-step panel locking sequence shown (top right) illustrates the snap-lock action of the connection. First, one panel is staned into the structural channel of the next panel. As the panels are pushed together, the locking logs spring out and then snap back into position as the connection process is completed. Sealer, which is placed in the outside self-locking recess prior to connection, is hydraulically extruded in place as the panels are snap locked together.

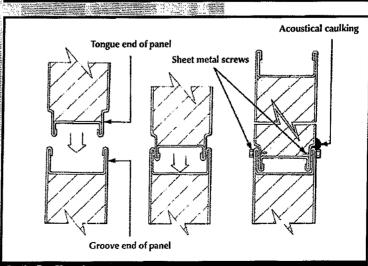
#### Type TG— Tongue-and-Groove

The Type TG panels utilize a tongue and groove joint design where the tongue end of one panel slips into the groove end of the adjoining panel (lower right). Fasteners (screws) are required for securing the panel joint. For installations where disassembly and re-erection may be required, it is recommended that a removable joint sealer be used instead of the standard McGill-AirSeal. United Duct-Sealer we sealant.









#### Standard Panel Construction

UNI-HOUSINGs can be constructed from McGill AirSilence's Type St. or Type TG panel systems. The Type St and Type TG panels are identical except for their panel joint designs The Type SL panel has a self-locking (snap-lock) design that offers quick assembly and is used in applications where disassembly is not a primary concern. The Type TG panel has a simple tongue and groove design that is recommended when future disassembly and re-erection of the enclosure may be required. Both panels have a sandwich-type construction consisting of a solid galvanized steel outer shell, acoustical/thermal insulating fill, and a perforated inner liner of galvanized steel. All of the standard wall, door, roof, and floor panels are available with either the snap-lock joint design or tongue-and-groove joint design.

#### Material Types and Thicknesses

The standard material for both the outer shell and inner liner is galvanized steel. It can be specified as either solid or perforated and has a minimum G-60 zinc coating. The perforated steel has a 23 percent open area. Many different material and gauge combinations of outer shell and inner liner can be selected, with the inner liner being either solid or perforated.

#### Selid Outer Skin

20-gauge

318-gauge (standard)

16-gauge

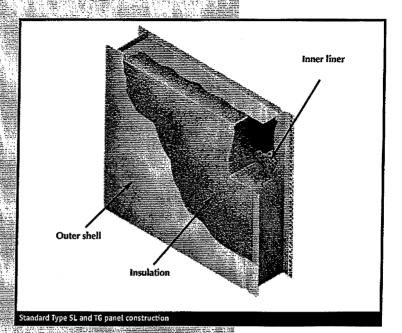
Solid or Perforated Inner Skin

22-gauge (standard)

20-gauge

18-gauge

Both SL and FG panels are available in a standard 4-Inch thickness: A 2-inch thickness is optional, with other thicknesses available by special order. Standard panel widths are 24 inches and 36 inches, with standard lengths up to 12 feet. Other widths and longer lengths are also available through special order. For most enclosures, at least one special width panel will be required as a fill-in panel to match the specified dimensions of each wall, floor, or roof assembly Also, in most cases, maximum panel lengths will be determined by the working design pressures.



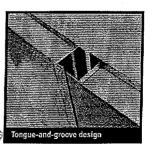
#### Insulation

The standard acoustical/thermal fill material used in Type SE and type FG panels is 1.55 pcf fiberglass, giving the standard 4-inch thick panel a value of RT7. Optional joint insulation may be specified when insulation between panel joints is required. However, since independent testing has shown the thermal effect of insulation in the joint to be negligible, insulation is not considered necessary for thermal control in most applications. The fill will not settle or promote the growth of bacteria, mold, vermin, or insects. A moisture barrier can also be specified that consists of one layer of polyethylene plastic separating the insulation from the infer perforated metal liner.

#### Surface Burning Characteristics

The Type SE and Type TC panels meet or exceed stringent fire-safety requirements. ANSI/NEPA 90A Installation of Air Conditioning and Ventilating Systems specifies "...a flame spread rating not over 25 without evidence of continued progressive combustion and a smoke developed rating no higher than 50... I for all duct coverings; duct linings; tapes, dry adhesives, and panel core materials used in air handling units and in duct systems. The standard for developing these ratings is UE-723 Tests for Surface Burning Characteristics of Building Materials (ASTM E-84, NFPA 255). All insulating materials, inner and outer surfaces, and sealants used in UNI-HOUSING enclosures meet the require ments of ANSI/NFPA 90A





# TITUS Budget Pricing

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	RFWARKS		a	\$ 5 ×	A	W. I. C. I.	A B & M. W.	A B RAIL ST	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	8	ST. CO.	BLADE ADJUSTMENT.	
	TO INC.	2	OFF-WHITE	OFF-WHITE	OFF-WHITE		OFF-WHITE	OFF - WHITE		OFF - WHITE		DLE FOR REAR	
DULE	MATERIAL		ALUMINUM	ALUMINUM	STEEL		ALUMINUM	ALIMINUM		ALUMINUM		Matroctor?	
SCHE	NFCK SIZE		8"6	6"ø	30x30		22X10	22X22		10X10		UCT. (by 60 ACCESSIBLE, VIDE POLE 'OF	
AIR DEVICE SCHEDULE	FACE SIZE		24X24	12X12	32x32		24X12	24X24		12X12		O BRANCH D AVITY IS NOT R. ALSO PRO	
AIR	CFM RANGE		125-225	0-125	1000 - 10,000		0-550	550-950		0-200		NOTES:  A. PROVIDE ROUND TO SQUARE TRANSITION AS REQUIRED TO CONNECT TO BRANCH DUCT. (  B. PROVIDE OPPOSED BLADE DAMPER AT DEVICE NECK WHERE CEILING CAVITY IS NOT ACCESSIBLE.  C. PROVIDE OPPOSED BLADE DAMPER OPERABLE FROM FACE OF REGISTER. ALSO PROVIDE POLE OPERATOR HANDLE FOR REAR BLADE ADJUSTMENT.	
	TYPE		SUPPLY	SUPPLY	SUPPLY		RETURN	RETURN		EXHAUST		ANSITION AS FER AT DEVICE PER OPERABLE	
	DESIGN BASIS	MODEL	TMS-AA	TMS-AA	JFA-S		350FL	350FL		350FL		O SQUARE TE BLADE DAME BLADE DAME	
	DESIG	MAKE	TITUS	TITUS	TITUS		SUTIT	TITUS		TITUS	•	NDE ROUND 1 NDE OPPOSED NDE OPPOSED	
	MARK		S-1	S-2	S-3		R-1	R-2		<u>-</u> -Ω		NOTES: A. PROV B. PROV C. PROV	

* 12x12 face not avoilable in aluminum.
Tims steel 12x12 face is #115.00

Dampers are included.

#### Jensen, Glenn

Chad updated the clearing & grubbing number

use 10,362 acres

### C-43 WEST STORAGE RESERVOIR PROJECT WO NO. C-C10401P-WO NO. 09

QUANTITY ESTIMATES C43-S1 – MAIN OUTLET

#### C-43 West Storage Reservoir Project WO No. C-C10401P-WO No 09 C43-S1 Main Outlet Quantity Estimate

Project No. 17300.09.00 5/17/2006

CONDUITS - C	CONCRETE			***						Elevated Slab	
Main Outlet Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft ³ )	Quan.	Concrete (CY)	Finish (ft²)	Formwork (ft ² )	(ft²)	
	Base (SOG - Finished Top Surface)	156	25 5	22	7293 0	1	270.1	3120	665		13.16
Typical	Center Haunch (SOG)	156	5	6	390.0	1	14.4	. 0	156		( Company
Conduit Sheets 85, 86	Top Slab (Elevated Slab - Finished Bottom Surface)	156	24.5	24	7644.0	1	283.1	3120	722	3,120	13.79
	Walls (Walls - Finished inside surfaces)	156	6	18	1404.0	3	156 0	3744	5670	la:	7.6
Conduit at Gatewell Sheets 85, 86	Base (SOG - Finished Top Surface)	40	26	31*	2710.5	1	100 4	562	<b>209</b>	,	4.89
	Top Slab (Elevated Slab - Finished Bottom Surface)	32	24.5	30*	2232 8	1	82.7		398		4.03
	Walls (Walls - Finished inside surfaces)	40	6	134*	2670 0	1	98.9	960	1440		<b>4.</b> 82
Depresents th	e average measurement ove	r the narti	cular sect	ion		Totals	1005.6	12315	9260	3660	

Actual measurement varies linearly

	Length	Density	Weight
Reinforcement Quantities	(ft)	(lbs/ft)	(Tons)
Typical Conduit	156	500	39.00
Conduit at Gatewell	40	500	sa10.00
	Total Reinfo	orcement	49.00

*Reinforcement density per computations

#### C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-S1 Main Outlet Quantity Estimate

Project No 17300.09.00 5/17/2006

Main Outlet Section	ASIN - CONCRETE  Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft³)	Quan.	Concrete (CY)	Finish (ft²)	Formwork (ft²)	Elevated Slab Formwork (ft ² )
	Walls (Walls - Finished Inside Surfaces)	35	13 5*	18	708 8	3	78.8	1890	2835	
itilling Basir Parabolic Transition	Base (SOG - Finished Top Surface)	35	24 5	18	1286 3	1	47:6	858	179	
	Shear Key	24.5	2	24*	98.0	1	3.6		98	
Sheet 88	Top Slab (Elevated Slab - Finished Bottom Surface)	24.5	35	15	1071.9	1	39.7	858	37	858
	Walls (Walls - Finished Inside Surface	32 25	19	18	919.1	3		2451	3762	858
	Base (SOG - Finished Top Suiface	32 25	24 5	36	2370 4	1	87.8	790	341	
	Toe Support	24.5	2	24*	98.0	1	3.6		- 98	
Stilling	Chute Blocks (4 Finished Surfaces)	1	1	12	1.0	10		, 30 ^{1/3}	<b>30</b>	
Hydraulic ump Basin	Baffle Blocks (5 Finished Surfaces)	25	1 25	14*	3.6	8	1,1	, 96	.96	*: -:
Sheet 88	End Sill (3 Finished Surfaces)	24 5	3.5	10*	73.5	1	2.7	131	131 "	
	Bridge Slab (Elevated Slab - Finished Top & Edge Surfaces)	24.5	24	15	735 0	1	27/2	649	31	588
	Bridge Slab Sills (Finished Top & Side Surfaces)	24 5	1 75	6*	21.4	2		25	49	588
Represents th	e average measurement over	the nartic	ular sectio	nn .	т	otais	396.2	7777	7685	1446

Actual measurement varies linearly.

	Area	Density	Weight
Reinforcement Quantities	(sq ft)	(lbs/sf)	(Tons)
Parabolic Transition Base	858	10.43	4.47
Parabolic Transition Walls	1418	8,09	5.73
Parabolic Transition Top Slab	858	10.43	4.47
Hydraulic Jump Basin Base	790	10.43	4.12
Hydraulic Jump Basin Walls	1838	8.93	8.21
Bridge Slab	588	10.43	3.07
	Total Reinfo	orcement	30.07

·075896 7045

*Reinforcement density per computations

#### C-43 West Storage Reservoir Project WO No C-C10401P-WO No 09 C43-S1 Main Outlet Quantity Estimate

Project No 17300.09.00 5/17/2006

GATEWELL -	CONCRETE									Elevated Sla
Main Outlet Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft ³ )	Quan	Concrete (CY)	Finish (ft²)	Formwork (ft²)	Formwork (ft²)
Walls (⊥ to flow) (Walls - Finished Inside Surfaces) 28 24 5 18 1029.0 2		28	24 5	18	1029.0	2	76.2	1372	2912	· ·
	46.7	1120	1680							
	Air Vent Casings	27	1.5	15*	51.3	2	3.8	122	122	
Represents th	e average measurement over	r the parti	cular sec	tion.		Totals	126.7	2614	4714	0

Actual measurement varies linearly.

	Length	Density	Weight
Reinforcement Quantities	(ft)	(lbs/ft)	(Tons)
Gatewell	28	510	7.14
To	tal Reinfo	orcement	7.14

·05625

*Reinforcement density

per computations

#### C-43 West Storage Reservoir Project WO No C-C10401P-WO No.09 C43-S1 Main Outlet Quantity Estimate

Project No 17300.09 00 5/17/2006

NTAKE - COI Main Outlet Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft ³ )	Quan.	Concrete (CY)	Finish (ft²)	Formwork (ft²)	Formwork (ft ² )	
	Base Slab (SOG - Finished Top Suface)	43.75	51	36	6693 8	1	247 9	1541	569	,	11,9
	Top Girders (Elevated - Finished Top, Bottom, and Side Surfaces)	45	1	21	78.8	3	8.8	7,43	608		H
	Top Beams (Elevated Beams - Finished Top, Bottom, and Side Surfaces)	10	0 667	12	67	18	<b>J44</b>	600	480		***
	Headwall (Wall - Finished Inside, Outside, & Top Surfaces with formed Gate Openings)	49 -(32)	26 (6)	24 (24)	2164.0	1	80.1		2736		<u>3</u> 28
W	Backside Intake Double Wall (Walls - Finished Inside, Outside, & Top Surfaces)	49	20	42	3920 0	1	145.2	2058	2040		7,0
Sheet 87	Transition to Conduit Side Curved Sections (Walls - Finished Inside Surface)	21*	6	37*	392.6	2	29.1	252	450		122
	Transition to Conduit Side Center Section (Walls - Finished Inside & Outside Surfaces)	12 5	6	33*	34.8	1	89	150	150°		.04
Finished I and Top formed G Divider V (Walls - F	Walls (II to flow) (Walls - Finished Inside, Outside, and Top Surfaces with formed Gate Openings)	35 -(24)	26 (6)	24 (24)	1532.0	2	113.5	3201	3976		5, 1
	Outside, and Top Surfaces)	34 25	12	18	616.5	1	22.8	873	822		151
f -	Center Columns	12.25	1.5	12	18.4	2	1.4	662	662 12492		40

Actual measurement varies linearly

004837

*Reinforcement density per computations

### C-43 West Storage Reservoir Project WO No. C-C10401P-WO No 09 C43-S1 Main Outlet Quantity Estimate

Project No 17300.09.00 5/17/2006

C43-S1 CONCRETE QUANTITY SUMMARY	·				Elevated Slab
Main Outlet Section	Concrete (CY)	Reinforcement (Tons)	Finish (ft²)	Formwork (ft ² )	Formwork (ft ² )
Conduit	1005.6	49 00	12315	9260	3660
Gatewell	126.7	7 14	2614	4714	0
Intake	654.5	31.66	12342	12492	0
Stilling Basin	396 2	30.07	7777	7685	1446
Totals	2183 0	117.87	35047	34150	5106

GATES AND MISCELLANEOUS

### C-43 West Storage Reservoir Project WO No. C-C10401P-WO No 09 C43-S1 Main Outlet Quantity Estimate

Project No 17300.09.00 5/17/2006

Main Outlet	ltem			
Section	Description	Quantity	Units	Notes
Conduit				
Sheets 85, 86	Expansion Joint Waterstop Material	480	LF	8*(23*2+7*2)
	5'x6' Cast Iron Sluice Gates	4	EA	
	Type-F Wall Thimble	4	EA	
i	Gate Stem	140	LF	4*35
	Motor Actuators	4	EA	
Gatewell	Heavy Duty Steel Grating	200	SF	2*(10*10)
Sheet 86	W8x31 I-Beam	40	LF	2*2*10
Sileet oo	Maintenance Ladder (Rungs)	74	EA	2*37
	Maintenance Ladder (Retractable Posts)	4	EA	
	Maintenance Ladder Safety Cage	56	LF	2*(37-9)
	2 1/2" Diam. Steel Railing (42" Height)	40	LF	
	8" PVC Pipe (Air Vent)	62	LF	2*31
	6'x8' Stainless Steel Slide Gates	10	EA	
	6'x8' Cast Iron Sluice Gates	2	EA	
	Gate Stem	200	LF	2*(10+10+16+24+16+24)
Intake	Watertight Motor Actuators	12	EA	
Sheet 87	Trash Strut Steel (3" x 1/4" Bars)	2042	LB	10*490*.4167
Silector	Heavy Duty Steel Grating	1551	SF	44*35.25
	Maintenance Ladder (Rungs)	78	EA	3*26
	Maintenace Ladder (Retractable Posts)	6	EA	
	Maintenance Ladder Safety Cage	34	LF	2*(26-9)
	10' Dewatering Needle Beam	2	ĒΑ	
	Needle Beam Bulkhead	2	EA	
Stilling Basin	2 1/2" Diam. Steel Railing (42" Height)	72.5	LF	35+35+24.5
Sheet 88	2 1/2" Diam. Steel Bridge Railing (42" Height)	49	LF	2*24.5
	Steel Sheet Pile Cutoff	367.5	SF	15*24.5

1551+200=1751 78+74=152 6+4=10 34+56=90

73+40:113+49:162

## C-43 WEST STORAGE RESERVOIR PROJECT WO NO. C-C10401P-WO NO. 09

**QUANTITY ESTIMATES C43-S8 – MAIN OUTLET** 

## C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-S8 Main Outlet Quantity Estimate

Project No. 17300.09.00 5/17/2006

CONDUITS - C	ONCRETE						· · · · · · · · · · · · · · · · · · ·			Elevated Slal
Main Outlet Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft³)	Quan	Concrete (CY)	Finish (ft²)	Formwork (ft²)	Formwork (ft ² )
	Base (SOG - Finished Top Surface)	156	25.5	22	7293.0	1	270.1	3120	665	
Typical	Center Haunch (SOG)	156	5	6	390.0	1	14:4	0	156	
Sheets 85, 86 Finished Walls (	Top Slab (Elevated Slab - Finished Bottom Surface)	156	24 5	24	7644.0	1	283 1	3120	722	3120
	Walls (Walls - Finished inside surfaces)	156	6	18	1404 0	3	156.0	3744	5670	
Conduit at	Base (SOG - Finished Top Surface)	40	26	31*	2710.5	1	100.4	562	209	
Gateweil	Top Slab (Elevated Slab - Finished Bottom Surface)	32	24 5	30*	2232.8	1	82.7	809	398	540
Sheets 85, 86 Walls (Walls - Finishe inside surfaces)	Walls (Walls - Finished inside surfaces)	40	6	134*	2670.0	1	*98.9		1440	
Represents the	average measurement over	the partic	ular sect	ion.	-	Totals	1005.6	12315	9260	3660

Actual measurement varies linearly.

Reinforcement Quantities	Length (ft)	Density (lbs/ft)	Weight (Tons)
Typical Conduit	156	500	39.00
Gatewell Conduit	40	500	10.00
	Total Reinfo	rcement	49.00

-048727

*Reinforcement density per computations

### C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-S8 Main Outlet Quantity Estimate

Project No. 17300.09 00 5/17/2006

Main Outlet Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft³)	Quan	Concrete (CY)	Finish (ft²)	Formwork (ft ^z )	Formwork (ft ² )
Gatewell	Walls (1 to flow) (Walls - Finished Inside Surfaces)	24	24 5	18	882.0	2	65,3	1176	2496	
Sheet 86	Walls (II to flow) (Walls - Finished Inside Surfaces)	24	10	18	360 0	3		960	1,440	
	Air Vent Casings	23	1.5	15*	43.7	2	:3:2:::	104	4104×	
Represents the	average measurement over	the partic	ular sec	tion.		Totals	108.6	2240	4040	0

3,68 2.25

Actual measurement varies linearly.

	L ength	Density	Weight
Reinforcement Quantities	<u>(ft)</u>	(lbs/ft)	(Tons)
Gatewell	24	510	6.12
1	otal Reinfo	rcement	6.12

ght s) 25635

*Reinforcement density per computations

## C-43 West Storage Reservoir Project WO No. C-C10401P-WO No 09 C43-S8 Main Outlet Quantity Estimate

Project No 17300.09.00 5/17/2006

Intake Sheet 87  Tog Finis  Tog Bee Botto Hear Ins Surfa  Wa Insi Irans Curv Finis Trans Cen	e Slab (SOG - Finished Top Suface)  pp Girders (Elevated - shed Top, Bottom, and Side Surfaces)  op Beams (Elevated sams - Finished Top, om, and Side Surfaces) adwall (Wall - Finished side, Outside, & Top aces with formed Gate Openings)  ckside Intake Double all (Walls - Finished side, Outside, & Top	43.75 45 10 49 -(32)	(ft) 51 1 0 667 23 (6)	(in) 36 21 12 24 (24)	(ft ³ ) 6693 8 78 8 6 7	1 3 18	8.8	600 °	608 480		12.5
Intake Sheet 87  Finis  Finis  Beau Botto Heau Ins Surfa  Bac Wa Insi  Irrans Curv Finis Trans Cen	shed Top, Bottom, and Side Surfaces) op Beams (Elevated earns - Finished Top, om, and Side Surfaces) idwall (Wall - Finished side, Outside, & Top aces with formed Gate Openings) ckside Intake Double all (Walls - Finished side, Outside, & Top aces of the County of the	10 49 -(32)	0 667	12 24	67	18	4.4	600 °	480 ^{(***}		
Intake Sheet 87  Intake Sheet 87  Intake Curv Finis  Cen	sams - Finished Top, om, and Side Surfaces) adwall (Wall - Finished side, Outside, & Top aces with formed Gate Openings) ckside Intake Double all (Walls - Finished side, Outside, & Top	49 -(32)	23	24						,	, ·i
Intake Sheet 87 Frans Curv Finis Trans Cen	side, Outside, & Top aces with formed Gate Openings) ckside Intake Double all (Walls - Finished side, Outside, & Top	-(32)			1870.0			2			1
Intake Sheet 87  Frans Curv Finis Trans Cen	all (Walls - Finished side, Outside, & Top					1	69,3	1968	2430		3.6
Curv Finis Trans Cen	Surfaces)	49	17	42	3405 5	1	126.1	1 <b>764</b>	1734 ^{3, 2}	3-	6.50
Cen	sition to Conduit Side ved Sections (Walls shed Inside Surface)	21*	6	37*	392 6	2	29,1	252	450		1.5
	sition to Conduit Side nter Section (Walls - hed inside & Outside Surfaces)	12.5	6	33*	348	<b>;1</b> , i	133	150>	₃ 150		.07
Finisl and	is (II to flow) (Walls - shed inside, Outside, if Top Surfaces with ned Gate Openings)	35 -(24)	23 (6)	24 (24)	1322 0	2	97.9	2781	3556	۷	£,0
(Wall Outside	ider Wall (II to flow) Ils - Finished Inside, Ie, and Top Surfaces)	34.25	12	18	616.5	1	22 8	873	822		1.19
presents the averag	Center Columns	12.25	1.5	12	18.4	2 otals	609.0	662 11334	662 11460		

Reinforcement Quantities	Area (sq ft)	Density (lbs/sf)	Weight (Tons)			
Intake Base	2231	10.43	11.64			
intake Walls	4485	8.93	20.03			
	Total Reinforcement					

·05/28876

*Reinforcement density per computations

### C-43 West Storage Reservoir Project WO No C-C10401P-WO No 09 C43-S8 Main Outlet Quantity Estimate

Project No 17300.09 00 5/17/2006

STILLING BAS	SIN - CONCRETE						11.110			Elevated Slab	
Main Outlet Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft³)	Quan	Concrete (CY)	Finish (ft²)	Formwork (ft ² )	Formwork (ft²)	
Stilling Basin	Walls (Walls - Finished Inside Surfaces)	35	13*	18	682.5	3	758	1820	2730		5.79
Parabolic Transition	Surface)	35	24.5	18	1286.3	1	47.6	_⇒ 858	179		3,62
Sheet 88	Shear Key	24.5	2	24*	98.0	1	36	9	.98		- X C
Sheet oo	Top Slab (Elevated Slab - Finished Bottom Surface)	24 5	35	15	1071.9	1	₃ 39.7	858	37	858	3.03
Walls (Walls - Finished Inside Surface	32.25	18	18	870 8	3	96.8	2322	3564		7.4	
	Base (SOG - Finished Top Surface	32 25	24 5	36	2370.4	1	87.8	790		gus.	6,71
	Shear Key	24.5	2	24*	98.0	1	3.6	201	98		• 28
Stilling	Chute Blocks (4 Finished Surfaces)	1	1	12	10	10	0.4	30	30		.03
Hydraulic	Baffle Blocks (5 Finished Surfaces)	25	1.25	14*	36	8	1.1	.96	96		,08
lump Basin Sheet 88	End Sill (3 Finished Surfaces)	24.5	3.5	10*	73.5	1	2.7	131	_131 ²		.21
	Bridge Slab (Elevated Slab - Finished Top & Edge Surfaces)	24.5	24	15	735.0	1	27:2	649	° 31,550	§588 °	21 2.08
	Bridge Slab Sills (Finished Top & Side Surfaces)	24.5	1.75	6*	21 4	2	J.6	25	49:	f	, 12
Represents the	average measurement over	he partice	ılar secti	on.	1	otals	387.9	7578	7382	1446	

Actual measurement varies linearly

	Area	Density	Weight
Reinforcement Quantities	(sg ft)	(lbs/sf)	(Tons)
Parabolic Transition Base	858	10.43	4.47
Parabolic Transition Walls	1418	8.09	5.73
Parabolic Transition Top Slab	858	10.43	4,47
Hydraulic Jump Basin Base	790	10.43	4,12
Hydraulic Jump Basin Walls	1742	8.93	7.78
Bridge Slab	588	10.43	3.07
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	otal Dainta	reement	20.64

2076411

*Reinforcement density per computations

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-S8 Main Outlet Quantity Estimate

Project No 17300.09.00 5/17/2006

43-S8 CONCRETE QUANTITY SUMMARY					Elevated Sial
Main Outlet Section	Concrete (CY)	Reinforcement (Tons)	Finish (ft²)	Formwork (ft²)	Formwork (ft²)
Conduit	1005.6	49.00	12315	9260	3660
Gatewell	108.6	6.12	2240	4040	0
Intake	609.0	31,66	11334	11460	0
Stilling Basin	387.9	29.64	7578	7382	1446
Totals	2111.1	116.42	33466	32141	5106

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No 09 C43-S8 Main Outlet Quantity Estimate

Project No 17300.09 00 5/17/2006

Main Outlet Section	Item Description	Quantity	Units	Notes	
Conduit Sheets 85, 86	Expansion Joint Waterstop Material	480	LF	8*(23*2+7*2)	
51.55.5 55, 55	5'x6' Cast Iron Sluice Gates	4	EA		-
-	Type-F Wall Thimble	4	EA		7
F	Gate Stem	124	LF	4*31	7
<u> </u>	Motor Actuators	4	EA		7
	Heavy Duty Steel Grating	200	SF	2*(10*10)	7
Gatewell -	W8x31 I-Beam	40	LF	2*2*10	7
Sheet 86	Maintenance Ladder (Rungs)	66	EA	2*33	7
	Maintenance Ladder (Retractable Posts)	4	EA		7
j-	Maintenance Ladder Safety Cage	48	LF	2*(33-9)	7
	2 1/2" Diam. Steel Railing (42" Height)	40	LF		7
<u> </u>	8" PVC Pipe (Air Vent)	54	LF	2*27	
	6'x8' Stainless Steel Slide Gates	10	EA		7
F	6'x8' Cast Iron Sluice Gates	2	EA		7
	Gate Stem	172	LF	2*(8+8+14+21+14+21)	772+124=294
Intake	Watertight Motor Actuators	12	EA		
Sheet 87	Trash Strut Steel (3" x 1/4" Bars)	2042	LB	10*490*.4167]
Sileet of	Heavy Duty Steel Grating	1551	SF	44*35.25	1551+200=176
	Maintenance Ladder (Rungs)	69	EA	3*23	_69+66=135R
	Maintenace Ladder (Retractable Posts)	6	EA		1944=1084
	Maintenance Ladder Safety Cage	28	LF	2*(23-9)	48+28=76 68
	10' Dewatering Needle Beam	2	EA]
Ailling Deals	Needle Beam Bulkhead	2	EA]
tilling Basin — Sheet 88 —	2 1/2" Diam. Steel Railing (42" Height)	72.5		24.5+35+35	73140149=
Stieer oo	2 1/2" Diam. Steel Bridge Railing (42" Height)	49	LF	2*24.5]
	Steel Sheet Pile Cutoff	367.5	SF	15*24.5	1

C-43 WEST STORAGE RESERVOIR PROJECT WO NO. C-C10401P-WO NO. 09

QUANTITY ESTIMATES
C43-S12 – CELL BALANCING STRUCTURE

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-S12 Cell Balancing Structure Quantity Estimate

Project No 17300.09.00 5/17/2006

ONDUNS -	CONCRETE									Elevated Slai
Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft³)	Quan.	Concrete (CY)	Finish .{ft²)	Formwork (ft²)	Formwork ;;' (ft²)
	Base (SOG - Finished Top Surface)	146	37.5	22	10037.5	1	371.8	4380	673	
Typical	Center Haunch (SOG)	146	5	6	365.0	2	27:0	0	292	
Sheets 155,156	Top Slab (Elevated Slab - Finished Bottom Surface)	146	36	24	10512 0	1	389.3	4380	728	4380
	Walls (Walls - Finished inside surfaces)	146	6	18	1314 0	4	1947	[®] 5256	³ -7080®	
Conduit	Base (SOG - Finished Top Surface)	40	37.5	31*	3909 4	1	144.8	882	209	
at Gatewell Sheets	Top Slab (Elevated Slab - Finished Bottom Surface)	40	36	29*	3267 0	1	121.0	1296	513	810
155,156	Walls (Walls - Finished Interior Surfaces)	40	6	195*	3904 5	1	144.6	1440	1920	
	he average measurement	over the	particular	r section.		Totals	1393.2	17634	11414	5190

Actual measurement varies linearly.

Reinforcement Quantities	Length (ft)	Density (lbs/ft)	Weight (Tons)
Typical Conduit	146	750	54.75
Conduit at Gatewell	40	750	15.00
	Total Reinfor	cement	69.75

*Reinforcement density per computations 18.61 1.25 19.49 9.75

6.01

7,2

C-43 West Storage Reservoir Project WO No C-C10401P-WO No 09 C43-S12 Cell Balancing Structure Quantity Estimate

Project No 17300.09.00 5/17/2006

Finished Inside 27 5 10 18 412.5 4 614.1 1650 2200 Surfaces)	Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft³)	Quan.	Concrete (CY)	Finish (ft²)	Formwork (ft²)	Formworl (ft²)
Sheet 156 Walls (II to flow) (Walls - Finished Inside Surfaces) 27 5 10 18 412.5 4 614.1 1650 2200		Finished Inside		36	18	1485.0	2	110.0	્ર1980 [ે]	4125	
Air Vent Casings 26.5 4.5 4.5 51.3 3 65.7 358 358		Finished Inside		10	18	412.5	4				
7th 75th 56th 56th 51.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.		Air Vent Casings	26.5	1.5	15*	51.3	3	5.7	₹358	358	

Actual measurement varies linearly.

	Length	Density	Weight
Reinforcement Quantities	(ft)	(lbs/ft)	(Tons)
Gatewell	27.5	765	10.52
Tı	otal Reinfor	cement	10.52

*Reinforcement density per computations

C-43 West Storage Reservoir Project WO No C-C10401P-WO No 09 C43-S12 Cell Balancing Structure Quantity Estimate

Project No 17300.09.00 5/17/2006

	ASINS - CONCRETE	,								Elevated Slab	Į.
Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft ³)	Quan	Concrete (CY)	Finish (ft ²)	Formwork (ft²)	Formwork (ft ²)	
	Walls (Walls - Finished Interior Surface)	36	8*	18	432.0	4	64.0	1728	2304		412157
Stilling Basin Parabolic	Base (SOG - Finished Top Surface, Formed Top Surface)	37	36	18	1998.0	1	74.0	1221:	_219®		4.83
Transition	Shear Key	36	2	24*	144.0	1	·5:3	1	144		-25
Sheet 157	Top Slab (Elevated Slab - Finished Interior Surface)	28	36	24	2016.0	1	74.7 **	1416	184	್ಚ 840 ⇔್	4,67
	Exterior Walls (Walls - Finished Inside Surface)	28	9	18	378.0	2	28.0	504	(1035		mess
04****	Interior Short Walls (Walls - Finished Surfaces)	6	4.75*	18	42.8	2	3.2	144	144		~ 21
Stilling Hydraulic	Base (SOG - Finished Top Surface	30	36	36	3240.0	1	120.0	1080	396		7.63
Hydraulic ump Basin Sheet 157 (V	End Wall & Toe Support (Wall - Finished Interior Surface)	36	13	24*	936.0	1	34.7	342	988		2726 .04 .10
	Chute Blocks (4 Finished Surfaces)	1	1	12	10	15	الله و 0.6	45	45:		.04
	Baffle Blocks (5 Finished Surfaces)	25	1.25	14*	36	12	1.5	144	344 .4:		, 10
•	ie average measurement	over the p	articular	section		otals	406.0	6624	5603	840	
Actual measu	rement varies linearly.				x 2 B	esins	811.9	13248	11206	1680	
Reinforc	ement Quantities		Density (lbs/sf)	Weight (Tons)							
	c Transition Base		10.43	6.95						j	
Parabolio	Transition Walls	بالمستشف	8.09	4.66							
Parabolic T	Fransition Top Slab		10.43	5.26						f	
Hydraulic	Jump Basin Base		8.43	4.55						ŀ	
	Jump Basin Walls		10.43	5.07							
	Total	Reinforce	ement	26.48						Į.	
einforcement	density	x 2 B	asins	52.97							

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-S12 Cell Balancing Structure Quantity Estimate

Project No. 17300.09.00 5/17/2006

13-S12 CONCRETE QUANTITY SUM!	MARY				Elevated Sla
Cell Balancing Structure Section	Concrete (CY)	Reinforcement (Tons)	Finish (ft²)	Formwork (ft²)	Formwork (ft²)
Conduit	1393.2	69 75	17634	11414	5190
Gatewell	176.8	10.52	3988	6683	0
Stilling Basins	811.9	52.97	13248	11206	1680
Totals	2382,0	133.24	34870	29303	6870

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-S12 Cell Balancing Structure Quantity Estimate Project No. 17300.09.00 5/17/2006

Main Outlet Section	item Description	Quantity	Units	Notes
Conduit				
Sheets 155,156	Expansion Joint Waterstop Material	588	LF	7*(35*2+7*2)
	5'x6' Cast Iron Sluice Gates	6	EA	
	Type-F Wall Thimble	6	EΑ	
•	Gate Stem	183	LF	6*30.5
Ī	Motor Actuators	6	EA	
	Heavy Duty Steel Grating	300	SF	3*10*10
Gatewell Sheet 156	W8x31 I-Beam 1860 15	60	LF	3*2*10
Stiest 190	Maintenance Ladder (Rungs)	99	EA	3*33
	Maintenance Ladder (Retractable Posts)	4	EA	
F	Maintenance Ladder Safety Cage	70.5	LF	3*(32.5-9)
Г	2 1/2" Diam. Steel Railing (42" Height)	62	LF	
	8" PVC Pipe (Air Vent)	58	LF	3*26.5
Stilling Basins Sheet 157	8" Diam. Trash Strut	258 ¥ ²	165 2 7	طا 545 3*3*10+3*2*28

C-43 WEST STORAGE RESERVOIR PROJECT WO NO. C-C10401P-WO NO. 09

QUANTITY ESTIMATES C43-CS1 – CREST SPILLWAY

C-43 West Storage Reservoir Project WO No C-C10401P-WO No.09 C43-CS1 Crest Spillway Quantity Estimate

Project No 17300.09.00 5/17/2006

CONDUITS	- CONCRETE									Elevated Slab	
Section	Description	Length (ft)	Width (ft)	Thickness (in)	Volume (ft³)	Quan	Concrete (CY)	Finish (ft²)	Formwork (ft²)	Formwork (ft²)	
	Conduit Base (SOG - Finished Top Surface)	82	13	18	1599.0	1	59.2	, 820	246		3. HG
Boxed Conduit Sheets 194, 195	Conduit Top Slab (Elevated Slab - Finished Bottom Surface)	82	12	18	1476.0	1	54.7	820	246»	[≫] .∉820 ∵ [∞]	3,20
	Conduit Walls (Walls - Finished inside surfaces)	82	6	12	492.0	2	36:4	984	1968	5÷	2-13
U-Shape Conduit	Conduit Base (SOG - Finished Top Surface)	90	13	18	1755.0	1	65.0°''	900	· 270		3 EO
Sheets 194, 195	Conduit Walls (Walls - Finished inside surfaces)	90	6	12	540 0	2	40.0	1080	.2160	<u>}</u>	2-3
Represents	the average measu	rement ov	er the p	articular sec	tion	Totals	255.3	4604.0	4890.0	820.0	

Actual measurement varies linearly.

	Length	Weight	
Reinforcement Quantities	(ft)	(lbs/ft)	(Tons)
Boxed Conduit	82	210	8.61
U-Shape Conduit	90	140	6.30
Tota	al Reinfor	cement	14.91

*Reinforcement density per computations

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No 09 C43-CS1 Crest Spillway Quantity Estimate

Project No 17300.09.00 5/17/2006

WEIR INLET	r - CONCRETE	Llanath	30/2445	Thickness	Volumo	Ouen	Congrete	Einich	Formwork	Elevated Sla Formwork
Section	Description	Length (ft)	(ft)	(in)	(ft ³)	Quan.	(CY)	(ft²)	(ft ²)	(ft ²)
Weir Inlet Sheet 195	Base Slab (SOG - Finished Top Suface)	44	48	15	2640 0	1	97.8	î 1455		
	Weir (Finished Curved Surface)	73	9	32*	1752.0	1	64.9	876	,365	
	Transition to Conduit (Walls - Curved Sections, Finished Inside Surfaces)	9	11	15	123 8	2	9.2	198	* 3 96***	
Represents	the average meast	rement or	ver the r	articular sec	tion	Totals	171.8	2529.0	991.0	0.0

4.7

3.2

Actual measurement varies linearly.

	Area	Density	Weight
Reinforcement Quantities	(sq ft)	(lbs/sf)	(Tons)
Base Slab	2112	10 43	11 01
Transition to Conduit	99	8.09	0.40
	Lanath	Density	Weight
	renam		AACIGITE
	(ft)	(lbs/ft)	(Tons)
Weir		-1	_

*Reinforcement density per computations

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-CS1 Crest Spillway Quantity Estimate

Project No 17300.09.00 5/17/2006

Section	BASIN - CONCRET	Length	Width	Thickness	Valuma	Ouen	Concrete	Finish	Formwork	Elevated Slab Formwork	7
Geotion.	Description	(ft)	(ft)	(in)	(ft ³)	Quan.	(CY)	(ft²)	(ft ²)	(ft ²)	ļ
	Walls (Walls - Finished Inside Surfaces)	64	15 5*	22*	1818.7	2	134.7	1984	3968 ⁻ /		6
Transition to Stilling Basin		67.5	16.5	27*	2505 9	1	928	675	378		رے
Sheet 196	(Elevated Slab Finished Bottom Surface)	64	13	12	832.0	1	30.8	832	90:	640	1.
	Walls (Walls - Finished Inside Surface	60	26	20*	2600.0	2	192-6	3120	6240		9,
	Base (SOG - Finished Top Surface	60	165	36	2970 0	1	110.0	600	459		57
	Shear Key	16.5	2	21	57.8	1	2:4:20		≈:66°\.		, T
	Chute Blocks (4 Finished * Surfaces)	15	1	12	1.5	5	₃ 0.3::: ³	35	26		•
	End Sill (3 Finished Surfaces)	10	3	12	30.0	1	13	50	30		ŕ
	Bridge Slab (Elevated Slab - Finished Top & Bottom Surfaces)	24	13	15	390.0	1	14.4	480	93	240	r •••
	Top Slab (Elevated Slab - Finished Bottmom Surface)	22	13	12	286.0	1	10 6	220	48	220	ą
epresents	the average measur	ement ove	er the pa	rticular sect	on To	otals	589.5	7996.0	11391.5	1100.0	

	Area	Density	Weight
Reinforcement Quantities	(sq ft)	(lbs/sf)	(Tons)
Drop Transition Base	1114	10.43	5.81
DropTransition Walls	736	8.93	3.29
Drop Transition Top Slab	832	10.43	4.34
Hydraulic Jump Basin Base	990	10.43	5.16
Hydraulic Jump Basin Walls	1560	8.93	6.97
Bridge Slab	312	10.43	1.63
Top Slab	286	10.43	1.49
Tota	I Reinfor	coment	28 68

*Reinforcement density

per computations

C-43 West Storage Reservoir Project WO No C-C10401P-WO No 09 C43-CS1 Crest Spillway Quantity Estimate Project No 17300.09 00 5/17/2006

3-CS1 CONCRETE QUANTIT	Y SUMMARY				Elevated Slat
Crest Spillway Section	Concrete (CY)	Reinforcement (Tons)	Finish (ft²)	Formwork (ft ²)	Formwork (ft²)
Conduits	255 3	14.91	4604	4890	820
Weir Inlet	171.8	12 62	2529	991	0
Stilling Basin	589.5	28 68	7996	11392	1100
Totals	1016.7	56.2	15129	17273	1920

C-43 West Storage Reservoir Project WO No C-C10401P-WO No 09 C43-CS1 Crest Spillway Quantity Estimate

Project No 17300.09.00 5/17/2006

Section	Item Description	Quantity	Units	Notes
Conduit Sheets 194,195	Expansion Joint Waterstop Material	92	LF	4*(6*2+11)
Weir Inlet Sheet 195				
	Expansion Joint Waterstop Material	73	LF	1*(25*2+11.5*2)
	10' Dewatering Needle Beam	1	EA	
Stilling Basin	Needle Beam Bulkhead	1	EA	
Sheet 196	2 1/2" Diam Steel Railing (42" Height)	13	LF	35+35+24.5
	2 1/2" Diam. Steel Bridge Railing (42" Height)	26	LF	2*13
ļ	Steel Sheet Pile Cutoff	247.5	SF	15*16.5

C-43 WEST STORAGE RESERVOIR PROJECT WO NO. C-C10401P-WO NO. 09

QUANTITY ESTIMATES C43-CS2 – CREST SPILLWAY

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No 09 C43-CS2 Crest Spillway Quantity Estimate

Project No. 17300.09.00 5/17/2006

Section	Description	Length	Width			Quan.	Concrete		Formwork	Elevated Slab Formwork	
	Conduit Base	(ft)	(ft)	(in)	(ft³)		(CY)	(ft ²)	(ft²)	(ft²)	
	(SOG - Finished Top Surface)	82	13	18	1599 0	1	59.2	:820	246		3,4
Boxed Conduit Sheets 194, 195	Conduit Top Slab (Elevated Slab Finished Bottom Surface)	82	12	18	1476.0	1	54:7·**	820	_≫ 246	820	· 35 10
	Conduit Walls (Walls - Finished inside surfaces)	82	6	12	492.0	2	36.4°	984	1968		2,10
U-Shape Conduit	Conduit Base (SOG - Finished Top Surface)	58	13	18	1131.0	1	¢41.9°	580	174		2.66 2.61
Sheets 194, 195	Conduit Walls (Walls · Finished inside surfaces)	58	6	12	348.0	2	₃ 25:8	696	1392		1.5
	the average measu urement varies line		er the pa	rticular secti	on.	Totals	218.0	3900.0	4026.0	820.0	
Dainfaraan	ent Quantities	- 1	Density (lbs/ft)	Weight (Tons)							
	d Conduit	82	210	8.61						I	
	e Conduit	58	140	4.06						1	
einforcemen	Tota	l Reinforc		12.67							

C-43 West Storage Reservoir Project WO No C-C10401P-WO No 09 C43-CS2 Crest Spillway Quantity Estimate

Project No 17300.09.00 5/17/2006

Section	- CONCRETE	1	I tor state	I=1.+.1	37.1	10		F2.4.4.	Te	Elevated Slab	
Section	Description	Length (ft)	(ft)	Thickness (in)	volume (ft³)	Quan	Concrete (CY)	Finish (ft²)	Formwork (ft²)	Formwork (ft²)	
	Base Slab (SOG - Finished Top Suface)	44	48	15	2640 0	1	97.8	1455	230 330	y	71
Weir Inlet	Weir (Finished Curved Surface)	73	9	32*	1752 0	1	64.9	. 876	a 365		the
Sheet 195	Transition to Conduit (Walls Curved Sections, Finished Inside Surfaces)	9	11	15	123 8	2	9.2.3	198	^: ∞396 ^{∞ }}		<u>.</u>
	the average measurement varies line		ver the pa	articular sect	ion.	Totals	171.8	2529.0	991.0	0.0	
			I								
Reinforcer	nent Quantities	Area (sq ft)	Density (lbs/sf)	Weight (Tons)							
200	se Slab	2112	10.43	11.01							
Transitio	on to Conduit	99	8.09	0.40						ŀ	
			Density	Weight						1	
		(ft)	(lbs/ft)	(Tons)							
1	Weir	73	33.09	1.21						1	
		I Reinford	ement	12.62							
einforcemer											
er computat	l'ana										

C-43 West Storage Reservoir Project WO No C-C10401P-WO No.09 C43-CS2 Crest Spillway Quantity Estimate

Project No. 17300.09.00 5/17/2006

Section	Description	Length	Width	Thickness	Volume	Quan	Concrete	Finish	Formwork	Elevated Slat Formwork
	1	(ft)	(ft)	(in)	(ft ³)	Quaii	(CY)	(ft ²)	(ft ²)	(ft ²)
Transition to Stilling	Walls (Walls - Finished Inside Surfaces)	44	12 5*	32*	1466 7	2	108.6	1100	2200	"
Basin Sheet 196	Base (SOG - Finished Top Surface)	46 5	165	27*	1726 3	1	63.9	465	284	
	Walls (Walls - Finished Inside Surface	32 25	19	21*	1072 3	2	79.4	1226	2451	
	Base (SOG - Finished Top Surface	32.25	16.5	36	1596 4	1	59:1	∛323≪	293	
Ţ.	Shear Key	16.5	2	21	57.8	1	2.1	····	≥66⊚≥≥	***********
Stilling Hydraulic	Chute Blocks (4 Finished Surfaces)	15	1	12	15	5	0.3	≅35	20°°°	
ump Basin Sheet 196	Baffle Blocks (5 Finished Surfaces)	25	1.25	14*	3.6	4	0.5	.96%	≈96 ²	
	End Sill (3 Finished Surfaces)	10	3	12	30.0	1	1.1	50	30 ****	·
	Bridge Slab (Elevated Slab - Finished Top, Bottom & Edge Surfaces)	24	13	15	390.0	1	14.49	° 480 [≪]	^ç 9 <u>3</u> çanı	240

Represents the average measurement over the particular section

Actual measurement varies linearly.

Reinforcement Quantities	Area (sq ft)	Density (lbs/sf)	Weight (Tons)
Drop Transition Base	767	10.43	4.00
DropTransition Walls	506	8.93	2.26
Hydraulic Jump Basin Base	532	10.43	2.78
Hydraulic Jump Basin Walls	613	8.93	2.74
Bridge Slab	312	10.43	1.63
Tota	al Reinfor	cement	13.40

*Reinforcement density per computations 442

2.6

3.23

2.4

· 00%

01

-02

04

>1

C-43 West Storage Reservoir Project WO No. C-C10401P-WO No.09 C43-CS2 Crest Spillway Quantity Estimate

Project No 17300.09.00 5/17/2006

C43-CS2 CONCRETE QUANTITY	YSUMMARY				Elevated Slab
Crest Spillway Section	Concrete (CY)	Reinforcement (Tons)	Finish (ft²)	Formwork (ft²)	Formwork (ft²)
Conduits	218 0	12 67	3900	4026	820
Weir Inlet	171.8	12 62	2529	991	0
Stilling Basin	329.6	13.40	3774	5532	240
Totals	719.5	38.7	10203	10549	1060

C-43 West Storage Reservoir Project WO No C C10401P-WO No 09 C43-CS2 Crest Spillway Quantity Estimate

Project No. 17300.09 00 5/17/2006

Section	Item Description	Quantity	Units	Notes
Conduit Sheets 195,199	Expansion Joint Waterstop Material	92	LF	4* (6 *2 +11)
Weir Inlet Sheet 195				
	10' Dewatering Needle Beam	1	EA	
tilling Basin Sheet 200	Needle Beam Bulkhead	1	EA	
Srieet 200	2 1/2" Diam Steel Bridge Railing (42" Height)	26	LF	2*13
	Steel Sheet Pile Cutoff	247.5	SF	15*16.5



Concrete Modular Systems, Inc.



PROPOSAL

Stanley Consultants 225 Iowa Ave Muscatine, IA 52761

Date: PH#:

May 25, 2006 1-563-264-6717

Fax#:

1-563-264-6658

Attn: Mr Tony Reinking

RE: SFWMD 12'-0"x22'-0"x10'-0" Control Building with Generator Room

Concrete Modular Systems, Inc is pleased to provide a quote to supply 1ea 12'-0"x22'.0"x10'-0" Precast Concrete Building for the above mentioned job. The building will be designed to meet 2004 Florida Building Code and ACI-318-99 and ACI-318R-99. The scope of work per building will exclude anything not specifically listed below:

Design Loads:

Roof Live Load

65 PSF

Wind Load

155 MPH

Earthquake Zone 1

Floor Live Load 125 PSF Floor Dead Load **63 PSF**

- 1ea DCA Approved Shop Drawings and Submittal Data
- 12'-0"x22'-0"x10'-0" Pre-Engineered Concrete Building "Scmi Smooth Finish" 1ea
- 4'x7' 14ga Imp. Door R-14.9 w/ Knob Lockset, Steel Lock Box UL752 Level IV 2ea
- Dripcap, Weather stripping and Door Sweep 2ea
- Weld Plate Less Design (No weldplates in interior) 1ea
- 1ea Interior Finish Walls and Floor Light Broom Finish Sealed and Painted
- 18" x 18" Galv Louver With SS Insect Screen and Galv Steel Hood 2ea
- 24" x 24" Galv Louver With SS Insect Screen and Galv Steel Hood 1ea
- 2ea 36" x 36" Galv Louver With SS Insect Screen and Galv Steel Hood
- lea Dayton Fan # 2C719
- All Openings and Penetrations per Owners Recommendation Prior to Casting 1ea
- Protective Coating System as Specified FCD Gray or Color by Owner 1ea

The total cost for the scope of work per building will be \$ 39,001.58, FOB to the jobsite Off-loaded by Concrete Modular Systems Inc. personnel The jobsite must be accessible for a 55ft tractor trailer and crane together The price does not include Federal, State, or Local Taxes. The pricing of this proposal is valid 30 days from the date of proposal Terms are NEI 30 Days upon Completion, Delivered or Stored.

Bid derived from Drawing # G-S7 1 of 2 only.

Proposal prepared and submitted by:

Proposal accepted by:

Frederick I Kennedy Ir.

General Manager



CONCRETE MODULAR SYSTEMS, INC.



PROPOSAL

Stanley Consultants 225 Iowa Ave Muscatine, IA 52761

Date: PH#:

May 25, 2006

Fax#:

1-563-264-6717 1-563-264-6658

Attn: Tony Reinking

RE: SFWMD 8'0"x8'-0"x10'-0" Control Building

Concrete Modular Systems, Inc. is pleased to provide a quote to supply 1ea 8'-0"x8'-0"x10'-0" Precast Concrete Building for the above-mentioned job. The building will be designed to meet 2004 Florida Building Code and ACI-318-99 and ACI-318R-99. The scope of work per building will exclude anything not specifically listed below:

Design Loads:

Roof Live Load Floor Live Load

65 PSF 125 PSF Wind Load

155 MPH

Earthquake Zone 1

Floor Dead Load **63 PSF**

DCA Approved Shop Drawings and Submittal Data 1ea

8'-0"x8'-0"x10'-0" Pre-Engineered Concrete Building "Semi Smooth Finish" 1ea

3'x7' 14ga Imp. Door R-14 9 w/ Knob Lockset, UL 752 Level IV 1ea

Dripcap, Weather stripping and Door Sweep 1ea

Weld Plate Less Design (No weldplates in interior) 1ea

Interior Finish Walls and Floor Light Broom Finish Sealed and Painted 1ea

18" x 18" Galv Louver With SS Insect Screen and Galv Steel Hood 1 ea lea

All Openings and Penetrations per Owners Recommendation Prior to Casting lea

Protective Coating System as Specified FCD Gray Color by Owner

The total cost for the scope of work per building will be \$ 14,553.22, ea, FOB to the jobsite Offloaded by Concrete Modular Systems Inc. personnel. The jobsite must be accessible for a 55ft tractortrailer and crane together. The price does not include Federal, State, or Local Taxes The pricing of this proposal is valid 30 days from the date of proposal. Terms are NET 30 Days upon Completion, Delivered or Stored

Bid derived from Drawing # G-S8 1 of 2 only.

Proposal prepared and submitted by:

Frederick L. Kennedy Jr. General Manager

Proposal accepted by:

Reinking, Tony

From:

Jensen, Glenn

Sent:

Wednesday, May 24, 2006 8:10 AM

To:

Reinking, Tony

Subject:

FW: C-43

12, X 25 2 × 8'

Can you get a price for a 12' x 22' & an 8' x 8'

BRIC"

From:

Huskey, Eric

Sent:

Wednesday, May 24, 2006 8:07 AM

To:

Ahlschwede, Jon; Jensen, Glenn

Çc:

Grounds, Dave; Brugger, Wayne; Ramey, John; Dreyer, Daniel; Walker, Wes; Tripmacker, Steve

Subject:

A control building fabricator that has been used on a previous SFWMD job was:

Concrete Modular Systems, Inc.

P.O. Box 531573

St. Petersburg, FL 33747-1573

Tel: (727) 945-1864 Fax: (727) 945-9756 CONCRETE LAGGORAR @ AOL COM

A contact at this firm is:

Frederick L. Kennedy Jr - General Manager F Kennedy@CMSHUTS COM

Eric Huskey, P.E.

Structural Engineer Stanley Consultants

Phone: (561) 689-7444 Fax: (561) 689-3003

Email: huskeyeric@stanleygroup com

From: Ahlschwede, Jon

Sent: Wednesday, May 24, 2006 8:25 AM

To: Jensen, Glenn

Cc: Grounds, Dave; Brugger, Wayne; Ramey, John; Dreyer, Daniel; Walker, Wes; Tripmacker, Steve; Huskey, Eric

Subject: RE: C-43 Importance: High

Attached are the pdf's of the 2 control bldgs we are using

We are using the larger building at all water control structures. We are using the smaller building at PS-1 only

Hope this helps Contact John Ramey if you need more info

File: G-S7 01 Control Bldg with Gen Plan pdf >> << File: G-S8 01 Control Bldg no Gen_Plan pdf >> Eric,

Do you know if the District has a prefab preference ???

Jon

From: Sent:

Jensen, Glenn Wednesday, May 24, 2006 8:15 AM Ahlschwede, Jon

To:

Cc:

Grounds, Dave; Brugger, Wayne

Subject:

C-43

Can one of you fine gentlemen send me the size of the typical precast control buildings I'm going to see about getting a price Does South Florida have a standard manufacturer they use?

Thanks

Glenn

GENERAL DECISION: FL20030093 FL93

Date: June 13, 2003

General Decision Number: FL20030093

Superseded General Decision No FL020093

State: Florida

Construction Type:

BUILDING

County(ies):

LEE

BUILDING CONSTRUCTION PROJECTS (does not include single family homes and apartments up to and including four stories)

Modification Number

Publication Date

Λ

06/13/2003

COUNTY (ies):

LEE

SUFL1052A 08/01/1993

Rates

Fringes

LEE COUNTY

ACOUSTICAL TILE INSTALLERS

10 57

GENERAL DECISION: FL20030032 04/14/2006 FL32

Date: April 14, 2006

General Decision Number: FL20030032 04/14/2006

Superseded General Decision Number: FL020032

State: Florida

Construction Type: Heavy

Counties: Broward, Collier, Lee, Martin, Miami-Dade, Palm

Beach and St Lucie in Florida

HEAVY CONSTRUCTION PROJECTS (Excluding Sewer & Water Lines)

Modification	Number	Publication Date
0		06/13/2003
1		01/23/2004
2		04/09/2004
3		05/28/2004
4		08/27/2004
5		01/28/2005
6		04/08/2005
7		08/12/2005
8		09/23/2005
9		12/16/2005
10		04/14/2006

CARP1026-002 08/01/2002

	Rates	Fringes
Piledriverman	\$ 20.25	4 . 7.0
ELEC0323-001 09/05/1993		
MARTIN, PALM BEACH, AND ST LUCIE	COUNTIES	
	Rates	Fringes
Blectrician	\$ 15.88	21.5%
ELEC0349-002 09/01/2005		
DADE COUNTY		

Electricians: Electrical contracts including materials that are \$2,000,000 and over \$ 25 46 6 05+8% Electrical contracts: including-materials that are less than \$2 000 000 \$ 23 00 6 05+8%	
are less than \$2,000,000 \$ 23.00 6 05+8%	

ELEC0728-001 09/05/2005

	unto de	
BRICKLAYERS/BLOCKLAYERS	12:00	
CARPENTERS (including drywall		
hanging and metal framing;		
excluding acoustical tile		
installations)	№0 ≈61	
CEMENT MASONS/CONCRETE FINISHERS	<u>_10=26==</u> ^	
ELECTRICIANS	10.38	. 57 .
GLAZIERS	13.28	50
HVAC MECHANICS (including		
HVAC pipe & duct)	10 - 11	. 68
IRONWORKERS, STRUCTURAL	9,29	1 61
IRONWORKERS, REINFORCING	10,52	
LABORERS,		
Unskilled	€>83	
Landscape	5-15°	
Mason tenders	3 565 °	
PAINTERS, BRUSH (excluding		
drywall finsihing)	9.57	
PIPEFITTERS (including fire		
sprinkler systems &		
excluding HVAC work)	≇0 ₹57	76
PLASTERERS	13200 October 15	
Plumber (excluding HVAC)	10.96	1.30
POWER EQUIPMENT OPERATORS	A CONTRACTOR OF THE PROPERTY O	
Grader	10 00	75
Loader	8=50=	4.3
ROOFERS	9 56	
SHEET METAL WORKERS		
(excluding HVAC duct)	968	
TILE SEITERS	12-00	

TRUCK DRIVERS

8 24

1 10

WELDERS - Receive rate for craft performing operation to which welding is incidental

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5 5(a)(1)(ii))

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing

WAGE DETERMINATION APPEALS PROCESS

- 1) Has there been an initial decision in the matter? This can be:
- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate)
 ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program If the response from this initial contact is not satisfactory, then the process described in 2) and 3) should be followed

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2) If the answer to the question in 1) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1 8 and 29 CFR Part 7) Write to:

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U S Department of Labor
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Washington, D C 20210

The request should be accompanied by a full statement of the

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3) If the decision of the Administrator is not favorable, an

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Administrative Review Board

U. S. Department of Labor

200 Constitution Avenue, N. W.

Washington, D C 20210

4) All decisions by the Administrative Review Board are final END OF GENERAL DECISION

BROWARD AND COLLIER COUNTIES

DIOWALD PART COMMITTEE COOKITED			
	Rates	Fringes	
Electrician	\$ 24 46	12-1/2%+\$5 60	
ELEC0915-001 12/01/2004			
LEE COUNTY			
	Rates	Fringes	
Electrician	\$ 21 63	32%+\$0 25	
* ENGI0487-002 07/01/2005			
DADE COUNTY			
	Rates	Fringes	
Power equipment operators:			
Backhoes, Bulldozers	\$ 19.25	6 40	
Cranes		6 40	
Oilers		6 40	
ENGI0487-003 07/01/2005			
BROWARD, COLLIER, LEE, MARTIN, P	ALM BEACH,	AND ST LUCIE COUNT	IES
	Rates	Fringes	
Power equipment operators: All Tower Cranes and All Cranes with boom length			
150 ft and over Cranes with boom length less than 150 ft	\$ 24.75	*7.40	
Backhhoes, and Bulldozers Oilers		7 40 7 40	
PLUM0630-001 01/01/2003			
LEE, MARTIN, PALM BEACH, AND ST	LUCIE COUNT	IES	
was a substitute of the substi			
	Rates	Fringes	
Pipefitter	\$ 26.61	5.91	
* PLUM0725-002 06/30/2005			
BROWARD AND DADE COUNTIES			
	Rates	Fringes	
Pipefitter	\$ 25 55	9.35	
SUFL1990-006 01/26/1990			
	Rates	Fringes	

(29CFR 5 5 (a) (1) (ii))

Carpenter \$ 12.71 2.71

Cement Mason \$ 10.50

Laborer \$ 5 72

Power equipment operators:
Loaders \$ 11 25 2 55

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental

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END OF GENERAL DECISION

GENERAL DECISION: FL20030097 FL97

Date: June 13, 2003

General Decision Number: FL20030097

Superseded General Decision No FL020097

State: Florida

Construction Type:

HEAVY

County(ies):

DE SOTO

HENDRY

OKEECHOBEE

GLADES

HIGHLANDS

HARDEE

MONROE

HEAVY CONSTRUCTION PROJECTS (including Sewer & Water Line Construction & Drainage Projects)

Modification Number

Publication Date

0

06/13/2003

COUNTY(ies):

DE SOTO

HENDRY

OKEECHOBEE

GLADES

HIGHLANDS

HARDEE

MONROE

SUFL2023A 10/01/1994

	Rates	Fringes
CARPENTERS	12 00	
ELECTRICIANS	14.50	
LABORERS:		
Unskilled	7.81	
Pipelayers	9.00	
PIPEFITTERS	10 00	
POWER EQUIPMENT OPERATORS;		
Backhoe	12 00	
Grader	12 .00	
Loader	12 00	
Tractor	12 .00	
Trenching Machine	1350	
TRUCK DRIVERS	10 00	

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Page No. Project No. 17300 C-43 West Storage Reservoir

Comp date: 5/16/06 Print date: 5/30/2006 Print time: 5:37 PM

Stanker Consultants, Inc. Christed by: Approved by: File name Christopot-DesignD3-CostEst/Shucknes 30% Submittel Quantity Take-oMQuantity Take of for 8-3, 5-10 & 5-11 xis

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Quantity take-off for Structure S-10

Page No. 1730) Project No. 1730) C-43 West Storage Reservoir

Comp date: 5/16/06 Print date: 5/30/2006 Print time: 5:37 PM

912.18 6454.86 16.31 0.00 167.82 329.00 2448.00 21795.10 88 3.84 3147.80 9443.71 24628.99 147291.35 360.00 877.50 880.00 535.51 165.00 1920,00 960.00 720,00 6296.81 29.90 Thickness/ Height 19.5 99.00 75.78 30.00 0.015 0.008 Quantity Sheet Piling:
Sheet piling:
Sheet piling:
Sheet piling:
Pupping Coeting the tet piles (termis)
Coemiticem Wingwells
Coemiticem Wingwells Herra Tre Seal Concreto; Concrete (poor strength) Service kridge slat:
Service kridge slat:
Edge
Fig:
Gorgole
Reidererrent
Finishes antrol Building: Precast Control Bidg. Operating Platform: Formwork Edge Edge Controls Reflorcement Finishes Sill (under weir gate):
Formweik
Concrete
Reliercement
Finishes Pile Cap; Formwork Concrete Reflorcement Fürsbes Formwork Concrete Reforcement Fivishes xcavation: Excavation

510

Straitev Consultants, Inc.
Checked by:
Approved by:
Approved by:
File name:Cx1730007-Design103-Cos(ExtS)nuctures 30% Submitted Quentity Take-othQuentity Take off for S-3, S-10 & S-11.xis

Comp date: \$/16/06 Print date: 6/30/2008 Print time: 6:37 PM

Stantiny Consultants, Inc.
Checked by:
Approved by:
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Fée name:Cxt720007-Cosegn103-ContEst/Structures 30% Stematal Quantity Take-omQuantity Take off for 5-3, S-10 & 5-11 xis

Kern Spread Footing: Formwork Constre Constre Relorgement Finishes	_								
Spread Fouting: Serowan Concrete Relargement Finiths	Cuantity	Longth	Width	Thickness/ Height	Linear	Areas	Volume	Volume	tion of
Formwork Formwork Coverte Relicional		¥	f	#	4.	age and a	•	200	Highwar
Constite Relictement Frishes								5	SUOI
Roiforzemant Fhishas									
Finishes									
508									
900									
Bridge Approach Slab:									
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Concrete	2	9	13			92.00			
Keliotement	0,016					Ornoz.	260.00	8,63	
Cinsnes									0.96
						00'002			
Leaden Flatform:									
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rusines						1000	0.10		0.0
						48.00			
Apron Slab:									
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9						7196,80628			96.9
Flori									
Congrete	9	52.28				6200			
Reiforcement	8 900	48.25	3.00	21.40		2000	0485 EC	00 000	
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						7152,16			
Columns (Supporting Platform);									
Formwork									
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r inshes									2.5
At Piers						483.00			
Formwork									
Concrete		11.00		11,50		908.00			
Reiforcement	0.028						717.43	26.67	
Finishes									4.39
						508,00			
weir junger roller gate):									
Concrete		28		13.40		698.9			
Reifordament	2000						42 RR 47	198.61	
Finishes	200.0						65.83	K-100	18.43
						1023.36			

Comp date: 5/16/06 Print date: 5/30/2006 Print time: 5:37 PM

Stranley Consultants, Inc. Computed by: Chaptered by: File name: 2311730007-Oesign03-CoalEstIStructures 30% Submittal Quantity Take-offictantity Take off for 5-3, 5-10 & 5-11,2/s

100 100		men	Consulting	Length	Width	Thinkney Helen					
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Column C								589.33	0.1		2.84
	Battles										
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1,000 1,00		Copresta				1,83		227.33			
1		Reitorgment		29	30.5			200			
1		Finishes	97079					387.00			
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1.00 1.00		Operating Platform:									
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1,20 1,20		Concrete		8	60						
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C C C C C C C C C C		Perphano locking sheet piles (up/downstream cutoff wall)		71.00		5.00		860.73		-	
Colored Colo		Nostream would be to be seen to b	2	82.00		4.00		284.00	175		
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						1.5			12305.44		
								+			

Comp date: 5/16/06 Print date: 5/24/2006 Print time: 6/24 AM

Stantey Consultants, Inc.
Checked W.
Approved by:
Approved by:
File name:ChDocuments and Seltings\(S\)588\(Local Settings\(T\)700 Settings\(T\

			Quantify take-of	Quantity take-off for Structure S-10	10				
Item	Quantify	Length	Width	Thickness/ Height	Linear	Areas	Volume	Volume	Weight
		ŧ	¥	#	12 12	5 S.F.	in cit	77.5	4
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FORTINGE									
Reforement									
Finishes									
l									
806									
Bridge Approach Slab:									
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Finishe	0.008						0.19		A0000
						48:00			
Abron Slab:									
Formwork									
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Reforcement	0.0214			3.50		3444.20	12054.70	446,47	
Finishes		63.78	24 00			38555355	257.73		63:14
			2000			328838			
walls:									
Formwork									
Concrete	4	66.28		15.70		4162.48			
Reforcement	0.015	107.00	06.2	15.70			\$006.85	E8644	4
Finishes						- 1448 50ES			-18.40
Pier						LCON'I DATE			
Formwork									
Concrete	0	40.19		16.70		-3785,6625	82		
Reiforcement	0.015		3.00	15.70			5254.59	184.81 ×	
Finishes						30 00077	78.62		(M8:34
Columbs (Supporting Distram).						00000			
At Abutments:									
Formwork	7	10.50		04.77					
Concrete	1			II.SI		483.00			
Ketorcement	0.025						423,14	-45.67	Western
A TIPOTON						2483.00	00.01		. 2.59
At Plers:									
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Reforcement	0.025						478.29	242245	
Finishes						DOBOO!	11:80		≪.23.93 ×
Major (modern and) and the section						Donnas			
Formwork									
Concrete		14		4,70		S 65.8 S			
Reforcement	0.015						542.93	*120.4	
Finshes						. 2564.43	9.74		.2.00

Page No. Proper No. 17300 C-43 West Studye Reservoir

Comp date: 5/18/06 Print date: 5/24/2006 Print time: 6:24 AM Stanlay Consultants, Inc.
Computed by:
Apploved by:
Apploved by:
File name:CXDournity Take off for \$-3 \$-10 \$-11 (2) uss

Constraint Con	Column				wadinity take on	walnuty take on for Structure 5-10					
Column	Column C	Item	Quantity	Length	Width	Thickness/Height	Linear	Areas	Volume	Volume	Weight
Column	Column C							381	#) Cit.	5	in tons
Column	Column	(under weir gate):									
Column C	Column	Formwork	2	02		4,70		488			
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1975 1975	Column C	Concrete	26			1,50		5.95		908.60	
1	1, 12, 12, 12, 12, 12, 12, 12, 12, 12,	Total Control of the	0.008								W. W.
1	Column	Citalida						535.61	The state of the s		
Column C	Control Cont	Jafed Slane:						1			
Column	Column	Control helder elele									
1	Column C	Econocit									
1	Control Cont	Fore		45	19.5			S277.5	September 1		
100 100	Column C	Flat	7	3		1.83		·2/165,00	77k)		
1	1	Concrete	*		4 47					*	48
1	Column	Reforcement	0.005	2	18.0	1.33		877.50			
1	1	Finishes		38	54	4 93		2000			90.8
Columbia	1					8		00.02818	and some		
Column	1	Operating Platform:									
150 150	150 150	FOIRINGE	-	45	8.00			380	3		
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100 100	100 100	Charrela									
1,000 1,00	1,000 1,00	Baltomanat	-	45	8.00	1.50		360.00		25.52	
Conf. Conf	1	Finisher	0.025								OO P
Constraint Con	Construction Cons	o priorice		38	31	1,33		00'066'	*		200
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Control Cont	100 100	, and the state of									
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1	1 1 1 1 1 1 1 1 1 1	Penpheric locking sheet piles	2			00.8		757 80			
Columbia	Total color	Perphere locking sheet pales	1			9		324 00			
1	1	Periorieric locking sneet paes	2			8.00		650.00			
Column C	Column C	Up and Down sueam wing walls	2			27.20		2448 00			
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4 30.00 2.00 2.00 660.00 2.01/10 1.00 0.008 0.008 2.00 2.00 660.00 3.34 1.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 7.6.78 66.00 2.00 2.00 2.00 2.00 1 1.00 2.00 2.00 2.00 2.00 2.00 1 1.00 2.00 2.00 2.00 2.00 2.	1	Mie Cap;							L	-	
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		CAP-Lead	,			1.5			9443.71		

Comp date: 8/16/06 Print date: 5/24/2008 Print time: 6/24 AM

Stanley Consultants, Inc.
Computed by:
Consputed by:
Approved by:
File namesCADocuments and Settings\5580\Local Settings\Temporary Internet Files\CLN2\RQuanter\Take off for S-3 S-10 S-11 (2),\lambdas

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1 28 13.40
0.015 438.47 *** 162.54 #2 ***
1000 (879) (8790 (870))

Page No.
Project No. 17300
C-43 West Storage Reservoir

Comp date: 57(6/06 Print date: 524/2006 Print time: 624 AM

Linear Month Volume Volume Linear Li	O				MUDILLIY IBROT	Audillity take-off for offucture 6-11					
1	1		ıntitv	Length	Wideh	Thickness/ Height		Areas	Volume	- Nolume	
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Columbia	1 69 0.00	stab;									
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ITEM	QUANIIIY	SF	CONC(C.Y.)	REINF (ION)	FORMWORK (S.F.)	FINISH (S.F.)	REMARKS
Base Slab			240	21.70	# 390	NA NA	
8" Bedding Stone		#4000 (SS)					
Filter Fabric	1	4110					
Walls			238	2651	8560	NA	
Elevated Slab			155	15.53	4450	NA	
Needle Beam			4	0.50	192	NA	
Stop Log		560	ŷ.				
Slide Gate (10'X10')	ET Library						
Weir Gate (10'X10')	.ho. a						~~
Rip-Rap							By SCI Civil
Excavation							By SCI Civil
Fill]		By SCI Civil

(TEM	QUANIITY	SF	CONC(C.Y.)	REINF (ION)	FORMWORK (S.F.)	FINISH (S.F.)	REMARKS
Base Slab			100	9.04	**165××**	NA	
8" Bedding Stone		1020					
Filter Fabric		1090				,	
Walls			²⁰ 88.∞∞	9.80	4000	NA	
Elevated Slab		"	#40	#: 4:00	21230:∞a	NA	
Needle Beam			1988 Brown 100	0.40	::/120	NA	
Stop Log		228					
Slide Gate (6'X6')	WEISTS?						
Weir Gate (6'X6')	1000						,
Rip-Rap						.,	By SCI Civil
Excavation							By SCI Civil
Fill							By SCI Civil

ITEM	QUANTITY	SF	CONC(C.Y.)	REINF (TON)	FORMWORK (S.F.)	FINISH (S.F.)	REMARKS
Base Slab			- 80	37,34	T10	NA	
8" Bedding Stone		470					
Filter Fabric		530	Series and		Brew Janes		
Walls		2 (7772)	200 Z Z 200 Z	10.25	3600	NA	
Elevated Slab			20	∜⊕2.00:::::::	620	NA	
Needle Beam			550 2 (1975)	0.24	PHO Second	NA	
Stop Log		280					
Slide Gate (10X6)	Sales en						
Weir Gate	N/A						
Rip-Rap							By SCI Civil
Excavation							By SCI Civil
Fill							By SCI Civil

IIEM	QUANTITY	SF	CONC(C.Y.)	REINF (TON)	FORMWORK (S.F.)	FINISH (S.F.)	REMARKS
Base Slab			a430 as	11.76 A	***15Q	NA	
8" Bedding Stone		4100	(A)		"		
Filter Fabric		1210	· · · · · · · · · · · · · · · · · · ·				
Walls			(100 de	11.14	4440	NA	
Elevated Slab			**45*****	@4:51aca@y	1320€	NA	
Needle Beam		AND CONTRACTOR	4	0.50	215	NA	
Stop Log		516					
Slide Gate (10'X8')	100 1 51955						
Weir Gate (10'X8')	#18570						
Rip-Rap							By SCI Civil
Excavation]					By SCI Civil
Fill							By SCI Civil

IIEM	QUANTITY	SF	CONC(C.Y.)	REINF (ION)	FORMWORK (S.F.)	FINISH (S.F.)	REMARKS
Base Slab			∂ 55 ்	# 5:00	₹ 88	NA	
8" Bedding Stone		348			17.1.22		
Filter Fabric		410	3				
Walls			48	535	×2070	NA	
Elevated Slab			15	21:50	480	NA	
Needle Beam	N/A						
Stop Log	N/A						
Slide Gate	N/A						
Weir Gate	N/A						
Rip-Rap							By SCI Civil
Excavation							By \$CI Civil
3 311							By SCI Civil

IIEM	QUANTITY	SF	CONC(@Y.)	REINF (ION)	FORMWORK (S.F.)	Finish (s.f.)	REMARKS
Base Slab			70	633	95	NA	
8" Bedding Stone		450					
Filter Fabric		520					
Walls			80	8.91	2820	NA	
Elevated Slab			20	2.00	×590	NA	
Needle Beam			25.3	0,40%	120	NA	
Stop Log		258			-24-		Action of the second se
Slide Gate (6'X6')	Street Street						
Weir Gate (6'X6')	The late.						
Rip-Rap			i				By SCI Civil
Excavation							By SCI Civil
Fill							By SCI Civil
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IIEM	QUANIIIY	SF	CONC(C.Y.)	REINF (ION)	FORMWORK (S.F.)	FINISH (S.F.)	REMARKS
Base Slab			2733	6.60	# i16 >7	NA	
8" Bedding Stone		575			00000		
Filter Fabric		650					
Walls			€68:€	₹7.5 7 ⊜,	≫2990>	NA	
Elevated Slab			34	3.40 ⊘	730	NA	
Needle Beam			\$‰ 3 ∞∞\$	∜0.35 ்ூ	120	NA .	
Stop Log		₹268		-		. "	
Slide Gate (6'X6')	· Statemen	variety.				THE PARTY OF THE P	The state of the s
Weir Gate (6'X6')	######################################	(e)					
R ip-Rap							By SCI Civil
Excavation							By SCI Civil
Fill							By SCI Civil

HEM	QUANTITY	SF	CONC(C.Y.)	REINF (ION)	FORMWORK (S.F.)	FINISH (S.F.)	REMARKS
Base Slab		(Wejsdarovia	60	5.43	110	NA	
8" Bedding Stone		470					
Filter Fabric		524					
Walls			***55 _{NSTRUMEN}	6.12	2320	NA	
Elevated Slab			20	2.00	612	NA	
Needle Beam		99604istembye	26.2 min 1;	0:24	110	NA	
Stop Log		204					
Slide Gate (10'X6')	Las						
Weir Gate	N/A						
Rip-Rap							By SCI Civil
Excavation							By SCI Civil
ग							By SCI Civil

5/24/2006

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Jensen, Glenn

From: Lange, Alan

Sent: Thursday, May 25, 2006 9:34 AM

To: Jensen, Glenn

Subject: FW: C43 Pump Station

Glenn,

Here's the break down on the fans

Alan

From: Brad Forret [mailto:brad@products-inc.com]

Sent: Thursday, May 25, 2006 8:28 AM

To: Lange, Alan

Subject: RE: C43 Pump Station

Here you go

8 – Sidewall exhaust fans
8 – Sidewall supply fans
1 – Inline SQ fan
1 – Ceiling fan SP
2 – Sidewall exhaust fans
Total

\$45,340
\$27,174
\$370
\$75
\$75
\$75
\$2,378

Thanks,

Brad Forret Products, Inc 1429 2nd Avenue Des Moines, IA 50314 515-288-5738 Phone 515-288-2574 Fax brad@products-inc.com

From: Lange, Alan [mailto:LangeAlan@stanleygroup.com]

Sent: Tuesday, May 23, 2006 2:19 PM

To: Brad Forret

Subject: RE: C43 Pump Station

Thanks Brad

Could you give me a break down on each fan Also I only need one SQ-85-D

Alan Senior Designer 563-264-6443 LangeAlan@stanleygroup com

Stanley Bldg 225 Iowa Ave Muscatine, IA 52761 From: Brad Forret [mailto:brad@products-inc.com]

Sent: Tuesday, May 23, 2006 10:02 AM

To: Lange, Alan

Subject: C43 Pump Station

Alan,

Here is the information you requested

Budget pricing for 21 fans per attached submittal is \$75,701 00

Current lead time for all the fans are approximately 3 weeks.

Please let me know if you have any questions

Thanks,

Brad Forret
Products, Inc
1429 2nd Avenue
Des Moines, IA 50314
515-288-5738 Phone
515-288-2574 Fax
brad@products-inc.com

MISCELANECIUS SITE WORK QUANTITIES

STRUCTURE	FLOATING WEED	FLOATING WEED	FLOATING SAFETY		
	UP STREAM	DN STREAM			VIEHIGLE BURRIER
	(LF)	(LE)	(1.5)	ON DIREAM	
<u>.</u>	OO	S	444	(FF)	(EA)
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03-1	23	23			
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5-3	105	112	114	121	
S-10	11	87	149	105	
5-11	120		136	136	
T-8-	271		104	234	
Ps-4	83		96	107	
2-2	105	105	105	105	
Q.B	61	61	102	80	
41-8	168	257	239	250	
-8 -13	109	102	136	474	
S-16	209	209	205	205	
8-17	55	55	64	64	
a-18	55		64		
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Comp date: 5/18/06 Print date: 5/24/2006 Print time: 6:24 AM

Weight Volume 1381.90 647.00 1412.18 Areas in sit. Quantity take-off for Structure S-3
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Figures Conces Roadway Approach Stab: Formwork Concrete Retrovement Frishes E S Welr (under roller gate): Formwork Concrete Reforement

Stanley Consultants inc Computed by Checked by. Accorded by.

imporary internet Files/OLK27tQuantity Take off for S-3 S-10 S-11 (2) xts

Comp date: 5/18/06 Print date: 5/24/2008 Print 6me: 8/24 AM

				Quantity take-off for Structure S-3	II Tor otructure a						
	Item	Quantity	Length	Width	Thickness/ Height	Linear	Areas in sft	Volume	Volume	Weight	
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	Perfohance Incidence proper pales		20.60		000		599.13				
	Pariotect Incident sheet raise	7	77.46		200		774.58			-	
	Periodenic locking sheet place	-	28.00		00.6		252.00				
	Jo and Down stream wing wate	***	00.00		900		380.00				
	Downstream wing walls		20.00		14.50		870.00				
		*	0.00		18.00		00:086				
	Ne Cap:							38.36	1		
	Formwork	ľ	W 00					1000			
	Concrete		2000	,000	200		480.00	_			1
	Reforcement	8000		30.7	700			320.00	*11.86	2000	e e
	inehes	and a								0.63	
							640.00				
	Seal Concrete:										
	Concrete (poor strength)	-	17.48	W 00	900						
				200	3			15104.38	659.42		
Control B	liding:										
	Precest Control Bldg.	-									
Excavation											
ſ	xcavation	-	97.44	20000							
			04.77	00.85	28.80			90324.18	3345.34		
Erosion G	Erosion Control System:										
	Coston Cooked Pahole										
ĺ	Total Control of the	1	8	37.70			:5256.69	22		-	
	Section 2				9.0					*	
Ī	Anna				1.5			7883 FA	80+06		
Ī		-									
					1						
							•				1

OPINION OF COST 30%

ltem	No.	Description		Unit	Quantity	Un	it Cost		Total
MOI	BILIZ	ATION/DEMOB	~10%	LS	job	\$	400,000	\$	400,000
1		Cofferdam 80	S INTAKE STRUC ft x 30 ft.	66005F		•	4.500	•	407.000
			, oo itii Lei oiit		90	\$	1,500		135,000
		Bracing	17TOH	LS	job	\$ \$	35,000	\$	35,000
		Pumping	250LF	mn	2	\$ \$	8,000	\$ \$	16,000
		Excavation Subtotal		су	4000	Þ	8	\$ \$	32,000 218,000
2		INTAKE STRU	CTURE						
	A.	CONCRETE			****				
		Footing (Base	: Slab)	су	207				
		Abutments, Pi	iers, Backwall	су	*235				
		Intake Noses		cy	41Q.sosto				
		Keyway		су	12				
		Subtotal		су	464				
	В.	FORMWORK		_					
		Footing (Base S	•	sf	640				
		Abutments, Pie	rs, Backwall	sf	-5280				
		Intake Noses		sf	207				
		Keyway		sf	304 🤛				
		Subtotal		sf	6431				
		REINFORCING		4	16.5				
		Footing (Base S	•	ton	18.8				
		Abutments, Pier	rs, Backwall	ton					
		Intake Noses		ton	0:8				
		Keyway		ton	•				
		Subtotal		ton	37.1				
		FINISHES			established (1994), was the state of the literature				
		Footing (Base S		sf	1872				
		Abutment, Piers	, Backwall	sf	304				
	;	Subtotal			2176				
3		PUMP HOUSE A	/ DISCHARGE ST	FRUCTURE					
	<i>-</i> 1. '	Wall Footing		су	118 ≫				
		Foundation Wa	all to el 160	cy	.68				
		Slab S-3		су	205				
		Slab S-1		cy	20				
		Slab S-4		cy	25				
		Slab S-5		cy	145				
				٠,	· · Č.				

Approach Slab Intake Slab ton 44 Discharge Chamber Keyway ton 0.8 Equipment Pads ton 0.3 Subtotal ton 86.1 D. FINISHES Wall Footing sf 708 Foundation Wall sf 90 Slab S-3 sf 1932 Slab S-1 sf 570 Slab S-5 sf 1292 Slab S-5 sf 1292 Slab S-2 sf 280 FAC Columns C-1 sf 0 Columns C-2 sf 0 Columns C-3 sf 0 Seams B-1 sf 92 Beams B-2 sf 352 Beams B-3 sf 0 Seams B-4 chamber Walls sf 0 Concrete Stairs sf 72 Slab S-5 sf 1292 sf 352 Beams B-4 sf 0 Seams B-4 sf 0 Se	Beams B-2 Beams B-3 Beams B-4 Chamber Walls Concrete Stairs	ton ton ton ton ton	48 19 0.6 8,7 125 28 **
Discharge Chamber Keyway	Approach Slab	ton	*0.2 · ,
Equipment Pads Subtotal D. FINISHES Wall Footing Foundation Wall Slab S-3 Slab S-1 Slab S-4 Slab S-5 Slab S-5 Slab S-5 Slab S-7 Columns C-1 Columns C-2 Columns C-3 Beams B-1 Beams B-2 Beams B-3 Beams B-4 Chamber Walls Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Wall w/ top at el. 19.0 - stem cy Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Wall -2		ton	
Subtotal Subtotal			·
D. FINISHES Wall Footing	• •		
Wall Footing sf 708** Foundation Wall sf 0 Slab S-3 sf 1932 Slab S-1 sf 570 Slab S-4 sf 722 Slab S-5 sf 1292 Slab S-2 sf 280 Columns C-1 sf 0 Columns C-2 sf 0 Columns C-3 sf 0 Beams B-1 sf 92 Beams B-2 sf 352 Beams B-3 sf 0 Beams B-4 sf 0 Chamber Walls sf 50 Concrete Stairs sf 10 Approach Slab sf 1380 Intake Slab sf 1380 Discharge Chamber Keyway sf 108 Equipment Pads sf 108 Subtotal 7708 RETAINING WALLS 7708 A. CONCRETE Wall w/ top at el. 31 0 - stem cy 10 Wall w/ top at el. 19 0 - stem cy 260	Subtotal	ton	86.1
Foundation Wall Slab S-3 Slab S-1 Slab S-1 Slab S-4 Slab S-5 Slab S-5 Slab S-5 Slab S-2 Columns C-1 Columns C-2 Columns C-3 Beams B-1 Beams B-2 Beams B-3 Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31 0 - footing cy wall w/ top at el. 31 0 - stern cy 108 Wall w/ top at el. 19 0 - stern cy 260 B. FORMWORK Wall -1 Wall -2 Sf 1300 Sido S770 Sido S	D. FINISHES		
Foundation Wall Slab S-3 Slab S-1 Slab S-1 Slab S-4 Slab S-5 Slab S-5 Slab S-5 Slab S-5 Slab S-2 Columns C-1 Columns C-2 Columns C-3 Beams B-1 Beams B-2 Beams B-3 Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31 0 - footing Wall w/ top at el. 31 0 - stern Wall w/ top at el. 19 0 - stern Wall w/ top at el. 19 0 - stern Wall w/ top at el. 19 0 - stern Wall w/ top at el. 19 0 - stern Wall w/ top at el. 19 0 - stern Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Sf 1190	Wall Footing	sf	708
Slab S-1 Slab S-1 Slab S-4 Slab S-5 Slab S-5 Slab S-5 Slab S-5 Slab S-2 Slab S-2 Columns C-1 Columns C-2 Columns C-3 Beams B-1 Beams B-2 Beams B-3 Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing cy Wall w/ top at el. 31.0 - stem cy Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Sf 1300	<u>-</u>	sf	\$ 10
Slab S-4	Slab S-3	sf	1932
Slab S-5	Slab S-1	sf	570
Slab S-2	Slab S-4	sf	722
Columns C-1 Columns C-2 Columns C-3 Beams B-1 Beams B-1 Beams B-2 Beams B-3 Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Coy Wall w/ top	Slab S-5	sf	1292
Columns C-2 Columns C-3 Beams B-1 Beams B-1 Beams B-2 Beams B-3 Beams B-3 Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Wall w/ top at el. 19.0 - stem Cy Wall w/ top at el. 19.0 - stem Cy Wall w/ top at el. 19.0 - stem Cy Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Sf 1300 Sf 1300 Sf 1300 Sf 1300 Sf 1300 Sf 1300 Sf 1300 Sf 1300 Sf 1300	Slab S-2	sf	280
Columns C-3 Beams B-1 Beams B-2 Beams B-3 Beams B-3 Beams B-4 Chamber Walls — Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Wall w/ top at el. 19.0 - stem Cy Wall w/ top at el. 19.0 - stem Wall w/ top at el. 19.0 - stem Wall w/ top at el. 19.0 - stem Wall w/ top at el. 19.0 - stem Wall w/ top at el. 19.0 - stem Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Wall -2	Columns C-1	sf	0
Beams B-1 Beams B-2 Beams B-3 Beams B-3 Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31 0 - footing Wall w/ top at el. 31 0 - stem Wall w/ top at el. 19 0 - stem Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Si Subtotal B. FORMWORK Wall -1 Wall -2 Si Si Si Si Si Si Si Si Si Si Si Si Si	Columns C-2	sf	0
Beams B-2 Beams B-3 Beams B-4 Chamber Walls Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31 0 - footing Wall w/ top at el. 31 0 - stem Wall w/ top at el. 31 0 - stem Wall w/ top at el. 31 0 - stem Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Wall w/ top at el. 19 0 - stem Cy Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Wall -2	Columns C-3	sf	0
Beams B-3 Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 19.0 - stem Cy Wall w/ top at el. 19.0 - stem Cy Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 130	Beams B-1	sf	92
Beams B-4 Chamber Walls Concrete Stairs Approach Slab Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Sf 1190	Beams B-2	sf	352
Chamber Walls sf 60 Concrete Stairs sf 72 Approach Slab sf 140 Intake Slab sf 1380 Discharge Chamber Keyway sf 0 Equipment Pads sf 108 Subtotal 7708 RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing cy 77 Wall w/ top at el. 31.0 - stem cy 108 Wall w/ top at el. 31.0 - stem cy 33 Subtotal cy 33 Subtotal cy 33 Subtotal cy 260 B. FORMWORK Wall -1 sf 1300 Wall -2 sf 1190	Beams B-3	sf	0
Approach Slab Intake Slab Intake Slab Signature Signatur	Beams B-4	sf	0 Feltile
Approach Slab Intake Slab Sf Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Wall w/ top at el. 31.0 - stem Cy Subtotal B. FORMWORK Wall -1 Wall -2 Sf 1300 Sf 1190	Chamber Walls	sf	60
Intake Slab Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing cy 77 Wall w/ top at el. 31.0 - stem cy 108 Wall w/ top at el. 31.0 - stem cy 33 Subtotal cy 32 Subtotal cy 33 Subtotal cy 36 Subtotal cy 36 Subtotal cy 36 Subtotal cy 36 Subtotal cy 37 Subtotal cy 42 Subtotal cy 33 Subtotal cy 36 Subtotal cy	- Concrete Stairs	sf	72
Discharge Chamber Keyway Equipment Pads Subtotal RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing cy 77 Wall w/ top at el. 31.0 - stem cy 108 Wall w/ top at el. 31.0 - stem cy 33 Subtotal cy 32 Subtotal cy 33 Subtotal cy 36 B. FORMWORK Wall -1 sf 1300 Wall -2 sf 1190	Approach Slab	sf	୍ୟ40 ୁ
Equipment Pads	Intake Slab	sf	1380
Subtotal 7708	Discharge Chamber Keyway	sf	0
RETAINING WALLS A. CONCRETE Wall w/ top at el. 31.0 - footing cy 77 Wall w/ top at el. 19.0 - footing cy 42 Wall w/ top at el. 31.0 - stem cy 108 Wall w/ top at el. 19.0 - stem cy 33 Subtotal cy 260 B. FORMWORK Wall -1 sf 1300 Wall -2 sf 1190	Equipment Pads	sf	108 \
A. CONCRETE Wall w/ top at el. 31.0 - footing cy 77 Wall w/ top at el. 19.0 - footing cy 42 Wall w/ top at el. 31.0 - stem cy 108 Wall w/ top at el. 19.0 - stem cy 33 Subtotal cy 260 B. FORMWORK Wall -1 sf 1300 Wall -2 sf 1190	Subtotal		7708
Wall w/ top at el 19 0 - footing cy 42 Wall w/ top at el 31 0 - stem cy 108 Wall w/ top at el 19 0 - stem cy 33 Subtotal cy 260 B. FORMWORK Wall -1 sf 1300 Wall -2 sf 1190			
Wall w/ top at el 31 0 - stem cy 108 Wall w/ top at el 19 0 - stem cy 33 Subtotal cy 260 B. FORMWORK Wall -1 sf 1300 Wall -2 sf 1190	Wall w/ top at el. 31.0 - footing	су	77
Wall w/ top at el 19 0 - stem cy 33 Subtotal cy 260 B. FORMWORK sf 1300 Wall -1 sf 1190	Wall w/ top at el. 19 0 - footing	су	
Subtotal cy 260 B. FORMWORK Sf 1300 Wall -2 sf 1190	Wall w/ top at el 31 0 - stem	су	108
B. FORMWORK Wall -1 sf 1300 Wall -2 sf 1190	Wall w/ top at el. 19 0 - stem	су	33
Wall -1 sf 1300 Wall -2 sf 1190	Subtotal	су	260
Wall -1 sf 1300 Wall -2 sf 1190	B. FORMWORK		
Wall -2 sf 1190		sf	1300

		and the second s
Slab S-2	су	10/405
Column C-1 (12)	су	37
Column C-2 (2)	су	6
Column C-3 (6)	сy	7_550
Beams B-1	cy	18
Beams B-2	cy	60
Beams B-3	сy	24
Beams B-4	сy	7
Chamber Walls	cy	156
Concrete stairs	cy	35
Approach Slab at el 19	cy	559-554
Intake Slab at el 10	cy	**************************************
Discharge Chamber Keyway	cy	44
Equipment pads	cy	4
- Intake Can Tremie	cy	56 🖟
Subtotal	cy	1076
Gubtotai	oy .	1070
B. FORMWORK		
Wall Footing	sf	1062 🗲
Foundation Wall to el. 16 0	sf	2124
Slab S-3 (SOG)	sf	894
Slab S-1 (Elevated)	sf	543
Slab S-4 (Elevated)	sf	684
Slab S-5 (SOG)	sf	318
Slab S-2 (Elevated)	sf	276 (2)
Columns C-1	sf	1920
Columns C-2	sf	320 *** *
Columns C-3	sf	448
Beams B-1	sf	368
Beams B-2	si sf	1924
Beams B-3	si sf	736
Beams B-4	si sf	266
Chamber Walls	si sf	4248
Concrete Stairs	si sf	144 >
	si sf	34
Approach Slab at el 19 0 (SOG) intake Slab at el 10 (SOG)	sf	0
Discharge Chamber Keyway	sf	3000
Equipment Pads	sf	21
Subtotal	sf	16634
Subtotal	31	10054
C. REINFORCING		
Wall Footing	ton	9.5 %
Foundation Wall	ton	5.5
Slab S-3	ton	16 4
Slab S-1	ton	16
Slab S-4	ton	3
Slab S-5	ton	11 6
Slab S-3 Slab S-2	ton	
Columns C-1	ton	59
Columns C-2	ton	1
Columns C-2 Columns C-3	ton	
Beams B-1	ton	1 4
Degins D-1	ton.	<i>•</i> ¬

	Wall -4 Subtotal	sf sf	1060 •• 5370			
	C. REINFORCING					
	Wall -1	ton	6.2			
	Wall -2	ton	3 4			
	Wall -3	ton	86			
	Wall -4	ton	26			
	Subtotal	ton	≥20:8 <i>></i>			
	D. FINISHES					
	Wall- 1	sf	75			
	Wall- 2	sf	0			
	Wall- 3	sf	105			
	Wall- 4	sf	75			
	Subtotal	sf	255			
5	MASONRY					
	Infill Panels 12 in CMU reinf	sf	1920∞/	-		
	Parapet 12 in CMU reinf	sf	-561			
	Interor 8 in CMU	sf	528			
	Subtotal					
6	PRECAST ROOF PANELS	_	"# "	•	05 A	42.400
	10 in Hollowcore	sf	=1736_=	\$	25 \$	43,400
	Subtotal				Þ	43,400
7	COMPONENTS AND CLADDING	_	12.1		- ^	00.004
	SBS roofing w/ 2 in insulation	sf	2912	\$	7 \$	20,384
	Wall coatings	sf	6400	\$	4 \$	25,600
	Interior roof coatings	sf	2912	\$	5 \$	14,560
	Scuppers and downspouts	ea	8	\$	600 \$	4,800
	Roof Hatches	ea	*3°	\$	4,500 \$	13,500
	Louvers 6 ft x 10 ft	ea	~2	\$	5,500 \$	11,000
	Louvers 4 ft x 4 ft	ea		\$	3,500 \$	3,500
	Overhead door 10 ft x 10 ft	ea		\$	7,500 \$	7,500
	Doors 3 ft x 7 ft and hardware	ea	*2 ***	\$	2,300 \$	4,600
	Doors 6 ft x 7 ft and hardware	ea	2	\$	2,700 \$	5,400
	Door 3 ft 7 ft interior	ea	2	\$	2,300 \$	4,600
	Exhaust fan hoods	ea	4	\$	1,700 \$	6,800
	Metal stairs	ea	7	\$	12,000 \$	12,000
	Subtotal				\$	134,244
8	MISCELLANEOUS METALS			^	0.500 *	0.500
	Intake embeds	job	1	\$	2,500 \$	2,500
	Building embeds	job	1	\$	2,000 \$	2,000
	Intake Handrail	lf .c	40 38 178 36	\$ \$	100 \$	4,000
	Discharge Chamber Handrail	lf 	38	\$	100 \$	3,800
	Retaining Wall Handrail	lf 	178	\$	100 \$	17,800
	Exterior Stairs Handrail	lf	3,6	\$	100 \$	3,600
	Subtotal				\$	33,700
	Subtotal Structure				\$	211,344

ELECTRICAL (installed costs UON)	
1 Building Service	
Entrance, disconnects, etc LS job \$ 30,000 \$	30,000
Building distribution LS job \$ 25,000 \$	25,000
2 Back-up Power, Building Services Only	
Generator ea 1 \$ 35,000 \$	35,000
Transfer switch ea 1 \$ 17,000 \$	17,000
Wiring, boxes LS job \$ 7,500 \$	7,500
3 Grounding System LS job \$ 5,500 \$	5,500
4 Lighting	
Exterior LS job \$ 10,000 \$	10,000
Interior LS job \$ 20,000 \$	20,000
5 Lightning Protection System LS job \$ 15,700 \$	15,700
	165,700
INSTRUMENTATION AND CONTROLS	
1 Motor Control	
PLC ea 4 \$ 18,000 \$	72,000
Trash Rake Control ea 3 \$ 2,500 \$	7,500
Conveyor Control ea 1 \$ 1,500 \$	1,500
Monitors and Instrumentation LS job \$ 20,000 \$	20,000
Cabinet ea 1 \$ 7,500 \$	7,500
Wiring, relays etc LS job \$ 25,000 \$	25,000
Stilling well, LW ea 2 \$ 5,000 \$	10,000
Pump and Motor Monitors ea 6 \$ 2,500 \$	15,000
Tump and Motor Monitors ea 0 \$\psi \chi_2,500 \psi	,0,000
2 RTU ea 1 \$ 20,000 \$	20,000
Interconnections and program LS job \$ 15,000 \$	15,000
3 Stage Monitoring Equip/Wiring LS job \$ 15,000 \$	15,000
4 Gas Detection System LS job \$ 6,500 \$	6,500
Subtotal \$	215,000
V	and the same of the same of the same of the same of the same of the same of the same of the same of the same of
*SITE WORK	
1 Intake	
Can Intake Tremie cy 23 \$ 1,200 \$	27,600
Stone Protection cy 475 \$ 85 \$	40,375
Excavation and Haul cy 10600 \$ 7 \$	74,200
2 Discharge Channel - estimated 2000 ft	
Excavation and Backfill cy 19700 \$ 7 \$	137,900
Riprap at structure cy 440 \$ 85 \$	37,400
Riprap at canal discharge cy 500 \$ 85 \$	42,500
3 Structure Site (assume site degraded to el 23 for reservoir fill)	
Excavation and Haul cy 9500 \$ 7 \$	66,500
Sructural Backfill cy 2500 \$ 12 \$	30,000
	153,000
4 Staff Gages w/ piling ea 2 \$ 2,700 \$	5,400
5 In-Bank Stilling Well ea 2 \$ 18,500 \$	37,000
6 Bollards ea 5 \$ 200 \$	1,000
7 Antenna Pole ea 1 \$ 78,000 \$	78,000
	23,100
8 Grassing ac 4.2 \$ 5,500 \$	20,100

HVAC	(Installed costs UON)					
	1 HVAC Control Room A/C	LS	job	\$	7,500	\$ 7,500
	2 Exhaust Fans and Shutters	ea	4	\$	1.800	\$ 7.200
	3 Controls	LS	job	\$	2,500	\$ 2,500
	Subtotal		•	•		\$ 17 200

	nstalled costs UON)		
1 Pumps				
Vertical Turbine SST, 56	0 cfs ea	3	\$ 135,000	\$ 405,00
Service Water System	ea	1	\$ 16,000	\$ 16,00
Motors 300 Hp	ea	3	\$ 40,000	\$ 120,00
Intake Can	ea	3	\$ 75,000	\$ 225,00
Intake Pipe 48 in dia	lf	160	\$ 250	\$ 40,00
Intake Pipe Wall Thimbl	es ea	3	\$ 4,100	\$ 12,30
Model study	ea	1	\$ 75,000	\$ 75,00
2 LP Gas Fuel System				
Storage Tank	ea	1	\$ 8,500	\$ 8,50
Piping, fittings, valves	job	1	\$ 13,500	\$ 13,50
3 Trash Collection System	•			•
Trash Rake	ea	3	\$ 95,000	\$ 285,00
Trash Conveyor	ea	1	\$ 65,000	\$ 65,00
Trash Rack	ea	3	\$ 66,000	\$ 198,00
4 Fire Extinguishers	ea	4	\$ 400	\$ 1,60
5 Discharge Piping, Fittings				
Pipe, 30, steel, flanged	lf	45	\$ 420	\$ 18,90
Wall thimbles	ea	3	\$ 3,500	\$ 10,50
Subtotal			•	\$ 1,494,300

SUBTOTAL PUMP STATION BONDS & INSURANCE 1.5% PROFIT 10% OVERHEAD 6% SUBTOTAL CONTINGENCY 20% PROJECT TOTAL

			•	
Computed by GJENSKM	Date 5/22/06	Subject <u>C-43</u> PUMP STA		
Checked by	Date	ELECTRIC		
Approved by	Date	Sheet No	of	with the same and a safety paging things same is
MALL SWICHBO	ARD VEMA	12 ANYLOGUR	7	
		MITSRIAL	LAA	1 1 1 1
MAIN BREAK	ER 600A /57	C 3,600 =	43,600 C	
40 A BRKR	3 6 230	=	690 0	0.65= 1.9
JOA BRILR	1 6230		730 C	0.65= 0.6
SOA BRICK	2 6 280		560 C	1,25 = 24
MARKR	7 0 280	2	1,90 0	1,75 = 8,7
200ABRIKR	10 4760	<u> </u>	760 C	2.6 = 26
300ABRYR	2 0 4/,20	3 +	2,400	3.5 = 7
CONSSEVICE GNIX			3,100 0	4.8 = 4.8
AUTOMATIC TRANS	1 1 1 1	600A 15A		16 + 16
POWER OWALITY			1,500	2
TRANSIENT VOLTA		10005-10/		
	Pilating		25,690	48.80
	1 1 1 1 3 3			
715-00 SEUSP 19	POSEIBISIA		The second secon	
	PROBABUS CO		26,000	\$ 2,500
SARVICE DISCOVIE			The second secon	
SARVICE DISCOVIÉ	PT SWITCH 6	200A-	26,000 /EA	\$ 2,500
SARVICE DISCOVIÉ		200A-	26,000 /EA	\$ 2,500
SARVICE DISCOVIÉ	PT SWITCH 6	200A-	26,000 /EA	\$ 2,500
MANCOAL TRAN	ET SWITCH (200A-	26,000 IEA IEA 1691	\$ 2,500
SARVICE DISEANIÉ	PT SWITCH 6	200A-	26,000 /EA	\$ 2,500
SARVICE DISCOVIE MANUAL TRAN	ET SWITCH (557 USE # 200A- 600A	26,000 NEA) EA 1691	\$ 2,500 E===c=c 2-0131 /smus \$
STRVICE DISCONIÉ	EFER SWITCH OFFICE SWITCH OFFICE ATOR 93701-0001	600A	26,000 NEA 1EA 1691 2EA 6 #3,	\$ 2,500 2-0191 /emus \$
SARVICE DISCONIE ANANUAL TRAN 500 KM/ DISSOIL GENTERATOR PAD	CT SWITCH (ISFER SWITCH OFNER ATOR 03301-0001 10000000000000000000000000	600A 600A	26,000 NEA LEA 16910 2EH = "3, 2.	# Z, 500 2-0191 /6/145 \$
STRVICE DISCONNE MANUAL TRAN 500 KM/ DISSOIL GENFRATOR PAD	ET SWITCH (ISFER SWITCH OF A FOR A TOP. 937-01-0001 700 Mus 45,00	600A 600A	26,000 NEA 1 EA 1651 2EH = 33 2EH = 33 2EH = 32	# 2,500 2-0191 /smus 9,
STRVICE DISCOME MANUAL TRAN STORM PAD TRANSFORMER F	27 SUPTCH (ISFER SWITCH OFMEN ATON 190 MUS 45,00 AD 03301-000 2011-000	600A 600A	26,000 NEA NEA NEA NEA NEA NEA NEA NEA	# Z, 500 2-0191 /4m25 \$, 000 MATC 000 LABOR 200 MATC
SPRVICE DISCOME MANUAL TRAN 500 KM/ DISCOME GENERATOR PAD TRANSFORMER F	ET SWITCH (ISFER SWITCH OF A FOR A TOP. 937-01-0001 700 Mus 45,00	100A 600A 600A 1000A 1000A 1000A 1000A 1000A 1000A 1000A 1000A	26,000 NEA NEA NEA NEA NEA NEA NEA NEA	# Z, 500 2-0191 /4m25 \$, 000 MATC 000 LABOR 200 MATC
STRVICE DISCONIE MANUAL TRAN 500 KM/ DIESEL GENERATOR PAD TRANSFORMER F	27 SUPTCH (ISFER SWITCH OFMEN ATON 190 MUS 45,00 AD 03301-000 2011-000	100A 600A 600A 1000A 1000A 1000A 1000A 1000A 1000A 1000A 1000A	26,000 NEA NEA NEA NEA NEA NEA NEA NEA	# 2,500 2-019/ /emus \$1
SERVICE DISCONNE MANUAL TRAN 500 KM/ DISSO'L GENERATOR PAD TRANSFORMER F CURRENT TRAN 4" PIC CONDUNT	27 SWITCH (ISFER SWITCH OFFICE SW	100A 600A 600A 1000A 1000A 1000A 1000A 1000A 1000A 1000A 1000A	26,000 NEA NEA NEA NEA NEA NEA NEA NEA	# Z, 500 2-0191 /4m25 \$, 000 MATC 000 LABOR 200 MATC
STRVICE DISCONIE IMANUAL TRAN STOCKAL DISCONIE GENERATOR PAD TRANSFORMER F	ET SWITCH (ISFER SWITCH OF SOIL SOIL 100 MLS 45,00 20,11 - 200 20,11 - 21 VESTORMER 16315	100A 600A 600A 1000A 1000A 1000A 1000A 1000A 1000A 1000A 1000A	26,000 NEA NEA NEA NEA NEA NEA NEA NEA	# Z, 500 2-0191 /4m25 \$, 000 MATC 000 LABOR 200 MATC
STRVICE DISCONIE MANUAL TRAN 500 KM/ DIESE'L GENERATOR PAD TRANSFORMER F CURRENT TRAN 4" PIC CONDUNT	27 SWITCH (ISFER SWITCH OFFICE SW	100A 600A 600A 1000A 1000A 1000A 1000A 1000A 1000A	26,000 NEA NEA NEA NEA NEA NEA NEA NEA	# 2,500 2-019/1/2005 \$1 2-019/1/2005 \$1 2-019/1/2005 \$1 200 MATC 500 MATC 40 MATC
SERVICE DISCONIE ANANUAL TRAN SERVICE PAD TRANSFORMER F CURRENT TRAN 4" PYC CONDUST SERVICE CABL	ET SWITCH (ISFER SWITCH OF SOIL SOIL 100 MLS 45,00 20,11 - 200 20,11 - 21 VESTORMER 16315	100A 600A 600A 1000A 1000A 1000A 1000A 1000A 1000A	26,000 NEA NEA NEA NEA NEA NEA NEA NEA	# 2,500 2-0191/60005 5, 000 MATC 000 LADOR 500 MATC 1000 MATC 1000 MATC 1000 MATC 1000 MATC 1000 MATC 1000 MATC

SC 3004 R4 898

Item QTY	
Security	
SEWE TY Main Control Panel 16839 - 2599 BELEX 1931 MAS GROWIT 1 EA	
26C-#14 Cable 2558 655 7310 128 LF 2-13 NLF	
24C-#14 Cable - 0357 27 2,340 44 LF 0.05MLF	
20C-#14 Cable = 0356 2 25 LF 0.03миF	
18C-#14 Cable - 0355 : は 1,716 196 LF のに HLF	
16C-#14 Cable 0354 23 1352 146 LF 012 MUF	
14C-#14 Cable -0353 - 1170 260 LF 0.26 MUF	
4C-#14 Cable - 103.52 g 296 LF からいた	
2C-#14 Cable 1672) - 0561 2014 214 188 LF 0.2 MUF	
3/4" RGS Conduit 250 491 1283 LF	
Limit Switch 10 EA	ч
Key Switch 4 EA	
Key Pad Security Panel 1 EA	
Key Pad 10 EA	
. 	
Fire Alarm Fire Alarm Control Panel 1 EA	
Main Control Panel 1 EA 1 EA	* ··
Emergency Lights 3 EA	
Manual Pull Station 9 EA	
Duct Detector 12 EA	
Smoke Detector 3 EA	
Horn Strobe 20 EA	
Heat Detector 39 EA	
2C-#14 Cable 2640 LF 2,6 € № — 3/4" RGS Conduit 2640 LF	
3/4 RGS Conduit 2040 El	
CCTV System	
Video Server Cabinet 1 EA	
Digital Video Recorder 1 EA	
Multiplexer/Video Switcher 1 EA	
Camera Pan/Tilt/Zoom Controller 1 EA 16862 - 9011 Com	219 LAKS 5,000 MATE
Monitor 1 EA	
56K Telephone Modem 1 EA	
Co-Axial Cable Signal Splitter 6 EA	
Internet Video Server/Multiplexer 1 EA	
Interior Camera 2 EA	
Exterior Camera 4 EA	
200 VA 120V-24V Transformer 6 EA	
Co-Axial Cable 588 LF のほれに	
3/4" Conduit 588 LF -	
	16c=
3/4" RGS Conduit 588 LF	

Computed by: Marcin Krok 5/24/2006

Project No 17300 09 02 PUMP ENGINE MCC South Florida Water Management District Pump Station Electrical Pump Station Electrical Material Cost Labor MH Total Labor

	ltem	QTY Unit	Unit Price	Material Cost	Labor MH	Total Labor
Ces	Motor Control Center					
	Motor Starter SIZE 1	5 EA	1,100 =	45,500	2. ≥	10
	Transient Voltage GOPPR 1950&	1 EA	790 =	790	au au en	MAG. 18 th 3 - In
	Circuit Breakers					THE RESERVE OF MICHIGAN
5	600A	1 EA	3, <i>0</i> 00 =	3,000	3.6 = 7,3 =	3.6 113 143
2	100A	1 EA	") ====================================	700	1,3 =	113
3	40A	1 EA	720 =	700	1-3-	
7	20A	4 EA	700 =	2,800	/- B	5,2
	Temperature Switch	1 EA	80 =	80		
	Potential Transformer	1 EA	80 = 730 =	730		Magay Wigas and Comm.
	Current Transformer	3 EA	440 =	1,320		
	15.500		• '	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
2 =	Setting Sections		\$			// MH
	Metering					
	Analog Meter	1 EA	4700 =	4700		<i>{</i>
	PLC Display	1 EA 🔅	2,000 =	2,900		ž
	Status Lights	1 EA	80 =	<i>30</i>		<i>!</i>
	Control Switches	1 EA	?o =	90		/
	Power Quality 16315 - ooil Ferral	1 EA	90 = 419	90 4580		37.4 × *:
	PROBABLE COS	T FOR ! U	'S∌	1 200		\$11870
	480V-120V 5KVA Transformer	1 EA		3		

/≱4/0 Power Cable

3-400 = 1700 -400 LF 1211=

2" PVC Conduit 400 LF Computed by: Marcin Krok 5/24/2006

POWER WIRLAG CYSTSI

Project No 17300 09 02 South Florida Water Management District Pump Station Electrical

ltem	QTY Un	it Unit Pr	ice Material Cost	Labor MH	Total Labor
Motor Control Center			· · · · · · · · · · · · · · · · · · ·		
Motor Starter SIZE 1	0 EA				
Motor Starter SIZE 2	0 EA				
Motor Starter SIZE 3	0 EA				
Soft Start SIZE 2	0 EA				
Soft Start SIZE 3	0 EA				
	0 27.				
Transient Voltage	0 EA				
Circuit Breakers	Action and the first state of the state of t				
600A	0 EA	1			
400A	0 EA				
100A	0 EA				
50A	0 EA				
40A	0 EA				
20A	0 EA				
2577	Ų LII (
Level Switch	0 EA				
Disconnect Switch 30A	0 EA				
Temperature Switch	0 EA				
Thermostat	0 EA				
Potential-Transformer	-0-EA				-
Current Transformer	0 EA				
Setting Sections		\$			МН
Metering					
Analog Meter	0 EA				
PLC Display	0 EA				
Status Lights	0 EA				
Control Switches	0 EA				
Power Quality	0 EA				
Volt	0 EA				
480V-120V 5KVA Transi	former 0 EA				
324/0 Power Cable 2" PVC Conduit	3 4650 = 1990 B LF 650 LF	1.95 MUF			

Item	QTY Unit	Unit Price	Material Cost	t Labor MH	Total Labor
Motor Control Center					
Motor Starter SIZE 1	27 EA	1,100 =	\$ 29.700	2	= 54
Motor Starter SIZE 2	8 EA	1,300 =			. 16,8
Motor Starter SIZE 3	0 EA	•			~
Soft Start SIZE 2	1 EA	2,200 =	2,200	2	* 2.
Soft Start SIZE 3	2 EA	3,300 =	Sy 600	2,/	2 4.2
Transient Voltage SUPPLESSE.	1 EA	790 =	794)	
Circuit Breakers	fild agapt, juggaggan spinspool kir salikhidakki kiri kasaman salipung, san pampungsad	Market			
600A	1 EA	3,000 =	5,200	3.6	3.6
400A	1 EA	2,300 2	7 300	28 =	2. B
100A	2 EA	700 2	7 7520	/,5 = /,5 =	2.6
50A	2 EA	700 =	1 300	1,5 =	2,6
40Å	0 EA				Vec. 17
20A	0 EA				
Level Switch Disconnect Switch 30A Not INCLW		BO =	Solver Asia	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	tana ngaya n amata n
Temperature Switch	0 EA	150	1.1		resum. Terms Company
Thermostat	5 EA		737		me Tay
Potential Transformer	1 EA	P The State			gale dates - garments - species - species -
Current Transformer	3 EA	4.40 =			
Setting Sections	••••	\$		······································	32 MH
Metering					
Analog Meter	0 EA				
PLC Display	0 EA				
Status Lights	0 EA				
Control Switches	0 EA	Λ			
Power Quality		90 =	90	1 =	1
Volt Meter	1 EA 🧻	760 =	760	į ~	Ì
480V-120V 5KVA Transformer	0 EA		1,520		122.6 MAS
	一种品的总体积少等	1051 1050 W	6E,000		"6,130
LAID Power Cable 200 Am a na -		7MUS			50.2mm
3-4/0 Power Cable 3ų,9∞ =5,7∞ 2" PVC Conduit	1900 LF	/MCICE	16315-0		

E016 Project No 17300 09 02

C43PS | MCL AUX WEST South Florida Water Management District
Pump Station Electrical

	Item	QTY Unit	Unit Price	Material Cost	Labor Mi	H Total Labor
PELS	Motor Control Center					
26	Motor Starter SIZE 1	13 EA	1,190 =	\$ 14,300	2	= 26445
160	Motor Starter SIZE 2	8 EA	1,300 3	10,400	2,1	2 16.8
	Motor Starter SIZE 3	0 EA	·			
رخ	Soft Start SIZE 2	1 EA	21200 =	2,200	Z	= 2
6	Soft Start SIZE 3	2 EA	3,300 =	61600	2,1	
			- ,			42
	Transient Voltage Supplies Soft	1 EA	790 =	790		
	Circuit Breakers				······································	
5444	600A	1 EA	3,000 =	3,000	2 4	= 3.6
4	400A	1 EA	2300 F	2,300	3.855	= 3.6
4	100A	2 EA	700 =	1, 200	7, 5	716
4	50A	2 EA	700 =	1, 400	1.5	2.6
	40A	0 EA		and the second second	,	\'
	20A	0 EA				
16-	Level Switch Disconnect Switch 30A Temperature Switch Thermostat Potential Transformer Current Transformer	0 EA 10 EA 0 EA 0 EA 1 EA 3 EA	730 5 410 =	1/2/2 AUX 730 1/3/20	EAST	10+8=1854
<u> 75</u> 27.	Setting Sections		\$			29 MH
i z	Cetting Cections		₽			29 WIT
	Metering					And the second s
	Analog Meter	0 EA				· ·
	PLC Display	0 EA				
	Status Lights	0 EA				
	Control Switches	0 EA				ſ
	Power Quality	1 EA	90 =	90	(=	/
,	Volt Varial	1 EA -	760 =	760	1 =	1
4	480V-120V 5KVA Transformer	0 EA		,290		91,64450
		<u> </u>	per usp "	45,000		4,600
3	3-4/0 Power Cable 3 +1,040 = 3,150 2" PVC Conduit	1950 LF ≥, 1050 LF	15 MLP	And the state of t	ta y, syrat sungarit sugat tekantapan tak a laki	4,000

Jensen, Glenn

From:

Grounds, Dave

Sent: To:

Thursday, May 18, 2006 4:27 PM Jensen, Glenn; Ahlschwede, Jon

Subject:

RE: C-43

Lee County, C-43 is in Hendry County

From:

Jensen, Glenn

Sent:

Thursday, May 18, 2006 5:25 PM Ahischwede, Jon

To:

Cc:

Grounds, Dave

Subject:

C-43

Jon,

We are going to use the labor rates from Ft. Meyers correct? Can you tell me the name of the county Ft Meyers is in?

Thanks

Glenn

Wed 31 May 2006 Eff. Date 05/31/06

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal

TIME 09:25:13 TITLE PAGE

C43 West Storage Reservoir South Florida Water Management District

DRAFT

Designed By: Stanley Consultants Estimated By: Stanley Consultants

Prepared By: L.G. Jensen D.R. Drake

Preparation Date: 05/31/06 Effective Date of Pricing: 05/31/06 Est Construction Time: 1095 Days

Sales Tax:

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Release 5.31

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal Project Distributed Costs PROJECT C43RES:

TIME 09:25:13

DETAIL PAGE

235400.00 235,400 235400.00 301.21 3.71 160.50 133,75 350.00 85.60 2535.00 15140.00 321.00 TOTAL COST UNIT COST 34400.00 1514.00 21.40 107.00 361.00 15140.00 133.75 34400.00 350.00 12,600 160.50 21.40 361.00 321.00 11,556 301.21 10,843 4.60 1514.00 1,514 85.60 107.00 3,852 2,535 2,597 2535.00 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 21400.00 21,400 214.00 214 2140.00 2,140 133.75 160.50 21.40 85.60 107.00 3,852 321.00 642 321.00 11,556 EQUIPMNT MATERIAL 535.00 0.00 235400.00 0 235,400 0.00 1000.00 0.00 50.00 100.00 0.00 00.0 00.0 00.00 0.00 00.0 00.0 0.00 3,000 0.00 3000.00 10000.00 0.00 0.00 12000.00 2.73 LABOR 350 300.00 1200.00 40.00 2000.00 00.0 0.00 0.00 0.00 0.00 0.00 0.00 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 MANHRS 0.00 00.0 0.00 0 0 00.0 0.00 0.00 00.0 0.00 0.00 00.0 0.00 0.00 0.00 0.00 00.0 0.00 00.0 0.00 11.25 OUTPUT QUANTY UOM CREW ID 85.00 CSF ULABB N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 36.00 EA 36.00 MO 36.00 MO 1.00 LS 2.00 EA 1.00 LS 700.00 LF 1.00 MO 36.00 MO 36.00 MO 1.00 LS 36.00 MO 36.00 MO 36.00 MO 1.00 LS <01921 5200 > Travel Expense (1 Trip Per MON) <01660 1001 > Testing Adjusting & Balancing ea) <01913 3001 > Temporary Sanitary (2ea @
\$40ea) Portable Toilets <01710 1111 > Debris Removal & Disposal <01500 1102 > Project Sign(s) (0 \$300 <01500 1102 > Fencing @ Storage Area <01500 1101 > Field Office Trailer <01921 6301 > Maintain Haul Routes <01913 4001 > Temporary Telephone <01710 1112 > Continuous Cleanup <01710 2112 > Final Job Clean-Up <01700 0001 > Contract Closeout <01500 1103 > Office Supplies <01913 1001 > Temporary Power <01913 2001 > Temporary Water <01922 3001 > Insurance - AA 0.01. 0. Overhead Items EQUIP ID: C43RES 0.01. Prime Contractor 0.01. Prime Contractor CIV USR USR USR MIL USR USR USR USR USR USR USR USR USR USR USR LABOR ID: C43RES

UPB ID: UP01EA

ID: NAT01A

CREW

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

TIME 09:25:13

DETAIL PAGE

Project Distributed Costs

TOTAL COST UNIT COST 107.00 1690.40 1759.83 6526.96 6630.52 6113.40 4736.67 2413.84 5163.33 3638.99 2925.95 5163.33 3880.80 3453.90 7000000.00 1690.40 60,854 3,852 1759.83 63,354 6526.96 6630.52 238,699 4736.67 2413.84 86,898 6113.40 36,680 5163.33 185,880 3638.99 2925.95 105,334 5163.33 61,960 3880.80 69,854 3453.90 124,340 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 107.00 3,852 0.00 0.00 0.00 0.00 00.0 0.00 0.00 0.00 0.00 EQUIPMNT MATERIAL 0.00 0.00 0.00 0.00 307,286 0.00 1690.40 60,854 1759.83 0.00 0.00 0.00 0.00 0.00 0.00 2000000 5000000 0 2,000,000 5,000,000 00.0 00.0 0.00 0.00 0 0 0 0.00 0 56,178 3,482,803 5,130,108 LABOR 0.00 0.00 6526.96 234,970 6630.52 238,699 4736.67 3638.99 131,004 0 0.00 2413.84 86,898 5163.33 61,960 3880.80 69,854 3453.90 124,340 36,680 6113.40 5163.33 185,880 2925.95 105,334 0.00 0.00 0.00 173.33 6,240 173.33 6,240 173.33 6,240 173.33 173.33 6,240 MANHRS 6,240 6,240 173.33 6,240 173.33 3,120 173.33 6,240 2,080 173.33 173.33 173.33 OUTPUT 1.00 1.00 0.00 0.00 T.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 36.00 MO T50F0001 36.00 MO I50F0003 FA-AGENS FA-PROJM FB-ACONT FB-PAYCL FC-ENELC FC-FLABT FC-INSPE FC-SURYC 36.00 MO FC-SURYR QUANTY UOM CREW ID N/A N/A 36.00 MO 36.00 MO 1.00 LS 36.00 MO 36.00 MO 36.00 MO 6.00 MO 36.00 MO 36.00 MO 36.00 MO 12.00 MO 18.00 Mo > Field Constr.QC.\ Lab Technician (P.M.) <01941 3121 > Storage/Tool Trailer (\$100/MON) > TRK, HWY, 4X2, F250, 3/4T, 8600 GVW 4X2 3/4-TON PICK-UP, 8600 GVW > Chief Scheduler & Planning Eng. TRK, HWY, 4X2, F150, 1/2T, 4900 GVW 4X2 1/2-TON PICK-UP, 4900 GVW General Superintendents > Contract Administrators > Engineers, Electrical TOTAL Overnead Items - AA > Project Managers > Surveyors, Chief > Engineers, Civil <01932 1001 > Mob and De- Mob > Payroll Clerks > Inspectors > Surveyors 0.01. Prime Contractor USR USR MIL MIL FOP FOP FOP FOP FOP FOP FOP FOP FOP FOP FOP

Currency in DOLLARS

EQUIP ID: C43RES LABOR ID: C43RES

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
01. Demolition

TIME 09:25:13

DETAIL PAGE

OTHER TOTAL COST UNIT COST LABOR EQUIPMNT MATERIAL OUTPUT MANHRS QUANTY UOM CREW ID 01. Demolition 01.01. Demo Large Pump Station 01.01. Demo Large Pump Station

1.00 EA CODFB8 1.00 EA USR AA <02049 0001 > Large Pump Station Demoittion TOTAL Demo Large Pump Station

0.00 0 0.00 6229.53 6,230 6,230 6129.66 6,130 6,130 199 198.51 0.04 199

12359.19 12,359 12359.19 12,359 12359.19

> EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
01. Demolition

TIME 09:25:13

DETAIL PAGE

01.02. Demo Small Pump Station	QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNT MAIERIAL OTHER TOTAL COST UNIT COST	OUTPUT MANHRS	MANHRS	LABOR	EQUIPMNT	LABOR EQUIPMNT MATERIAL	OTHER	OTHER TOTAL COST UNIT COST	UNIT COST
01.02. Demo Small Pump Station							; ; ; ; ; ;	; ; ; ; ;	
USR AA <02049 0001 > Small Pump Station Demolition	8.00 EA CODFB8	0.17	47.62 1 0.17 381	1470.39	47.62 1470.39 1494.35 381 11,763 11,955	0.00	0.00	0.00 0.00 2964.74 0 0 23.718	2964.74
TOTAL Demo Small Pump Station	1.00 EA	'	381	381 11,763 11,955	11,955	381 11,763 11,955 0 0 23,718	0	0 23,718	23717.88
TOTAL Demolition	1.00 EA	1	579	579 17,893 18,184	18,184	579 17,893 18,184 0 0 36,077	0	36,077	36,077 36077.07

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
02. Perimeter Dam, Separator Dam

TIME 09:25:13 DETAIL PAGE

842.40 OTHER TOTAL COST UNIT COST 842.65 842.65 8, 731, 491 0 0.00 0.00 0 LABOR EQUIPMNT MATERIAL 232,159 4,102,675 4,628,815 22.40 395.93 446.71 0.27 232,159 4,102,675 4,628,815 OUTPUT MANHRS QUANTY UOM CREW ID 10362 ACR CODFB7 10365 AC L MIL AA <02109 0152 > Clear & grub, cut & cnip medium trees, 10" dia NOTE: Price from Test Cell Bid TOTAL Clear and Grub 02. Perimeter Dam, Separator Dam & Perimeter Canal 02.01. Clear and Grub 02.01. Clear and Grub

EQUIP ID: C43RES LABOR ID: C43RES

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
02. Perimeter Dam, Separator Dam

DETAIL PAGE

TIME 09:25:13

02-02-02-02-02-02-02-02-02-02-02-02-02-0									1
QUANTY UOM CKEM ID OUTPUT MANHRS LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT COST	COANIY COM CREW ID	OUTPUT	OUTPUT MANHRS	LABOR	EQUIPMNT	LABOR EQUIPMNT MATERIAL	OTHER	OTHER TOTAL COST UNIT COST	III COST
02.02. Stripping	A							4)
MIL AA <02241 0020 > Loam or topsoil, 200' haul, 6" deep, 200 HP dozer, remove/pile 1070000 CY CODIB10B on site	1070000 CY CODTB10B		0.01	0.01 0.47 0.65 108.13 14,873 500,760 696,249	0.65	0.00	0.00	0.00 1,197,009	1.12
TOTAL Stripping	1070000 CY		14,873	14,873 500,760 696,249	696,249	14,873 500,760 696,249 0 0 1,197,009	0	0 1,197,009	1.12

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
02. Perimeter Dam, Separator Dam

TIME 09:25:13

DETAIL PAGE

02.03. Blanket Drain	QUANIY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT COST	OUTPUT MANHRS	MANHRS	LABOR	SQUIPMNT	LABOR EQUIPMNT MATERIAL	OTHER	OTHER TOTAL COST UNIT COST	UNIT COST
02.03. Blanket Drain									
L AF AA <02244 1505 > Base course, sand, washed & graded, compacted, 6"D, large areas	192852 CY COFGB36C	18.42	53	0.27 10.00 11.87 21.80 52,340 1,928,481 2,290,040 4,203,383	11.87	0.27 10.00 11.87 21.80 2,340 1,928,481 2,290,040 4,203,383	0.00	00 43.67 0 8,421,905	43.67
TOTAL Blanket Drain	192852 CY		52,340 1	52,340 1,928,481 2,290,040 4,203,383	290,040	1,203,383	0	52,340 1,928,481 2,290,040 4,203,383 0 8,421,905	43.67

EQUIP ID: C43RES LABOR ID: C43RES

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
02. Perimeter Dam, Separator Dam

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02.04. Toe Drain	QUANTY UOM CREW ID	CREW ID	DOLLA	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	LIN
02.04. Toe Drain				 						
MIL AA <02709 2110 > Piping, subdrainage, perforated PVC, 6" dia	99130 LF	CLABB14	37.50	0.16	2.78	0.43	2.85	0.00	6.06	
MIL AA <02768 2045 > Piping, drainage & sewage, SDR 35,6" dia,PVC,no exc/bkfill,10' L,B£S	7540.00 LF	USKCSKWK2	46.88	0.04	0.93 6,978	0.00	1.44	0.00	2.37	
MIL AA <02752 1130 > CB or manholes, conc, precast, 4' ID, 8' deep	200.00 EA	ОСЕНВ22	0.25	15.20	358.13 71,627	130.24	489.17	0.00	977.54	977.54
MIL AA <02752 1300 > CB or manholes, conc, slab tops, precast, 8" thick, 4' dia	200.00 EA	CODIB6	1.00	3.00	66.83	16.25	167.29	0.00	250.37	250.37
MIL AA <02752 3910 > CB or manholes, steps,galv. steel rung, 10" x 10"	1800.00 EA	AMABBRIC1	5.00	0.20	4.49	0.00	14.26	0.00	18.75	18.75
MIL AA <02752 4600 > Manhole cover & frame, CI, city type, 24" dia x 265 lb	200.00 EA	CODLB6	1.00	3.00	66.83	16.25	148.41 29,682	0.00	231.49	231.49
MIL AA <02752 1300 > CB or manholes, conc, Base slab, precast, 8" thick, 4" dia	200.00 EA	CODIB6	1.00	3.00	66.83	16.25 3,251	167.29	00.00	250.37	250.37
IOTAL Toe Drain	106670 LF			21,383	401,988	78,763	513,143		993 887	62.0

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02.05. Random Pill Embankment		QUANTY UOM CREW ID	ID OUTPUT	UT MANHRS	S LABOR	EQUIPMNT MATERIAL	MATERIAL	OTHER	TOTAL COST UNIT COST	COST
02.05. Random Fill Embankment Includes Dam, Bench, Berm and Access Road	irm and Access Road Corridor						 	 	 	
MIL AA <02226 3220 >	MIL AA <02226 3220 > Excavation, bulk, 4.5 cycle/hr, push loaded self prop scraper, 19772438 CY 43 BCY	19772438 CY CODSB33H		0.03	0.01 0.29 193.75 148,293 5,785,415	0.76	0.00	0.00	1,05	1.05
MIL AA <02224 7020 > Excavating, bulk, large area, open grade NOTE: Use for sha embankment	Excavating, bulk, dozer, 300 HP large area, open site, rough grade NOIE: Use for shaping embankment	, 19772438 CY CODTB10M	B10M 300,00		0.01 0.17 0.36 98,862 3,335,610 7,167,509	0.36 7,167,509	0.00	0.00	0.53 10,503,119	0.53
AF AA <02220 5810 > Compaction, steel roller, 10 ton	Compaction, steel wheel tandem roller, 10 ton	19772438 CY COFCB10Y	B10Y 337.50		0.00 0.15 0.09 86,999 2,963,888 1,694,498	0.09	0.00	0.00	0.24	0.24
MIL AA <02220 9040 > Compaction, water, gal, 6 mile haul	. Compaction, water, wagon, 6000 gal, 6 mile haul	19772438 CY COFWB59	859 200.00		0.01 0.19 0.33 3,862 3,699,423 6,499,200	0.01 0.19 0.33 0.21 98,862 3,699,423 6,499,200 4,231,302	0.21	0.00	00 0.73 0 14,429,925	0.73
TOTAL	TOTAL Random Fill Embankment	19772438 CY		433,01	5 15784337	433,016 15784337 30307193 4,231,302	1,231,302	0	0 50,322,832	2.55

CREW ID: NATOIA UPB ID: UPOIEA

7000	2002	05/31/06	STIMATE
,	,	Eff. Date	DETAILED

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
02. Perimeter Dam, Separator Dam

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	VIT COST		3.39	3.39
	OTHER TOTAL COST UNIT COST		3.39 442,082	442,082
	OTHER	 	00 0	0
	LABOR EQUIPMNT MATERIAL	; ; ; ; ; ; ; ; ;	0.00	5,484 202,096 239,986 0 0 442,082
	EQUIPMNT		1.84	239, 986
	LABOR) 	1.55	5,484 202,096 239,986
	MANHRS		5,484	5,484
	OUTPUT MANHRS		118.72	
•	4 CREW ID		.30250 CY COFGB36C	
	QUANTY UOM CREW ID		130250 CY	130250 CY
	02.06. Chimney Drain QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT COST	02.06. Chimney Drain	B AF AA <02244 1505 > On site Sand Compacted in 3' Lifts NOTE: Price from Test Cell Bid	TOTAL Chimney Drain

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30% Submittal
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NIT COST		4.15	4.15
OTHER TOTAL COST UNIT COST		.00 4.15 0 18,603,177	0 18,603,177
OTHER		0.00	0
LABOR EQUIPMNT MATERIAL		1.85	119,774 4,494,908 5,804,353 8,303,916 0 18,603,177
EQUIPMNT		1.29	5,804,353 8
LABOR		0.03 1.00 1.29 1.85 7774 4,494,908 5,804,353 8,303,916	119,774 4,494,908 5,804,353 8,303,916
QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT COST		0.03 1.00 1.29 1.85 224.46 119,774 4,494,908 5,804,353 8,303,916	119,774
QUANTY UOM CREW ID		COFCV	
QUANTY UO		4485936 SF	4485936 SF
02.07. Slurry Wall	02.07. Slurry Wall	USR AA <02081 0001 > Slurry wall NOTE: Price from Test Cell Bid 4485936 SF COFCV	TOTAL Slurry Wall

May 2006	e 05/31/06	ESTIMATE
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02.08. Soil Cement	QUANTY UOM CREW ID	OUTPUT MANHRS LABOR EQUIPMNT MAIERIAL OTHER TOTAL COST UNIT COST	LABOR	LABOR EQUIPMNT MATERIAL	MATERIAL	OTHER	OTHER TOTAL COST UNIT COST	T COST
B MIL AA <02266 1300 > Erosion control, soil cement, 7% portland cement, in place NOTE: Price from Test Cell Bid	715414 CY COFCB70A	0.90 25.50 16.55 5.92 6.70 640,296 18244059 11839672 4,233,176	25.50 18244059	16.55	5.92	0.00	0.00 47.97 0 34,316,907	47.97
USR AA <02266 1301 > Erosion control, soil cement, 7% portiand cement, in place stair stepped NOTE: Price from Test Cell Bid Labor adjusted for Stair Stepping	74245 CX COFCB70A	1.11	1.11 31.50 20.44 82,085 2,338,873 1,517,835	20.44	5.92 439,315	0.00	0.00 57.86 0 4,296,024	57.86
TOTAL Soil Cement	789659 CY	722,381	722,381 20582932 13357508 4,672,491	13357508	4,672,491	0	0 38,612,931	48.90

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30% Submittal
02. Perimeter Dam, Separator Dam

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02.09. Toe

Toe Drain Outfall End Treatment	QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT COST	OUTPUT MANHRS	MANHRS	LABOR	LABOR EQUIPMNT MATERIAL	MATERIAL	OTHER	OTHER TOTAL COST UNIT COST	II COST
USR AA <02270 0099 > Rip-rap, random, machine placed			0.03	1,50	0.63	27.29	00.00	29.41	
for slope protection	174.00 TON UOEHB12G	80.99	S.	261	109	4,748	0	5,118	29.41
USR AA <02266 0009 > Filter Fabric			0.08	1.01	0.62	6.42	00.00	8.05	
	348.00 SY CLABB80A	36.00	29	351	217	2,234	0	2,801	8.05
TOTAL TOE Drain Outfall End Treatment	174.00 TON	ı	34	34 612 326 6,982	326		0	7,919	45.51

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

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02. Perimeter Dam, Separator Dam

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7.03 0.53 0.24 0.73 8.53 OTHER TOTAL COST UNIT COST 29,922 7.03 0.53 0.24 0.00 0.00 0.00 0.00 4.28 0.00 0.00 0.21 EQUIPMNT MATERIAL 184,254 1.62 66,305 0.36 0.09 0.33 98,158 LABOR 1.14 0.17 0.15 0.19 67,363 205 0.03 0.00 0.01 OUTPUT MANHRS 1,763 105.00 300.00 337,50 200.00 41000 CY CODIBIOM 41000 CY COFCB10Y QUANTY UOM CREW ID 41000 CY CODEB30 41000 CY COFWB59 41000 CY MIL AA <02224 7020 > Excavating, bulk, dozer, 300 HP, large area, open site, rougn grade NOTE: Use for shaping embankment M AF AA <02234 4100 > Select Fill, hauling, w/loading, 12 CY truck, 5 mile haul, AF AA <02220 5810 > Compaction, steel wheel tandem roller, 10 ton MIL AA <02220 9040 > Compaction, water, wagon, 6000 gal, 6 mile haul TOTAL Select Fill 02.15. Select Fill 02.15. Select Fill

Currency in DOLLARS

EQUIP ID: C43RES LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
02. Perimeter Dam, Separator Dam

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ST UNIT COST		77 35 1534.77	35 1534.77
TOTAL CO		1534.77	359,135
OTHER		0.00	0
MATERIAL		15.63 666.20 280.60 587.97 0.06 3,656 155,892 65,660 137,584	3,656 155,892 65,660 137,584 0 359,135
EQUIPMNT		280.60	65,660
LABOR		15.63 666.20 3,656 155,892	3,656 155,892 65,660 137,584
MANHRS		15.63	3,656
OUTPUT		90.0	
QUANIY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNT MATERIAL OTHER TOTAL COST UNIT COST		234.00 ACR COELB66	234.00 AC
02.20. Seeding	02.20. Seeding	L MIL AA <02932 0320 > Seeding, Hydro seeding, NOTE: Price for Test Cell Bid	TOTAL Seeding

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers
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30% Submittal
02. Perimeter Dam, Separator Dam

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OTHER TOTAL COST UNIT COST 4,780,095 19120.38 438.94 0.00 438.94 0 4,780,095 0 0.49 111,259 2,025,250 226,295 2,528,549 LABOR EQUIPMNT MATERIAL OUTPUT MANHRS QUANTY UOM CREW ID 10890 MSF CLABB63 250.00 AC B RSM AA <02933 1000 > Sodding, bent grass sod, on level ground, over 6 MSF TOTAL Sodding 02.21. Sodding 02.21. Sodding

EQUIP ID: C43RES LABOR ID: C43RES

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

02. Perimeter Dam, Separator Dam

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635.00 09.0 0 132,859,843 132859843 1056.00 TOTAL COST UNIT COST 1056.00 1905.00 37599.00 37599.00 37,599 1056.00 3,168 1056.00 3,168 635.00 1905.00 5,715 0.60 7.28 37,599 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0 0 856.00 2,568 856.00 2,568 535.00 1605.00 4,815 0.00 4.28 12,840 LABOR EQUIPMNT MATERIAL 24,396 24,396 1718481 50260106 57793737 24806000 0.00 0.00 0.00 00.00 00.0 0.13 392 392 200.00 200.00 100.00 300.00 0.47 3.00 900 12,812 12,812 0.00 0.00 0.00 0.00 0.01 0.11 OUTPUT MANHRS 359 359 00.0 0.00 00.0 00.0 90.63 30,35 QUANTY UOM CREW ID 3000.00 LF CODBB54 3000.00 LF EELER18 3.00 EA N/A 3.00 EA N/A N/A 3.00 EA N/A 3.00 EA 1.00 EA 1.00 EA 1.00 EA AF AA <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher TOTAL Perimeter Dam, Separator Dam TOTAL Cell Instuments & Controls USR AA <15743 0001 > Telemetry To/From Gated Structure USR AA <15743 0001 > Control Conduit & Cable USR AA <15743 0001 > Cell Level 10 Points USR AA <15743 0001 > 16 VHF Data Radios Structure USR AA <15743 0001 > SP IO Points TOTAL Controls 02.95. Cell Instuments & Controls 02.95. Cell Instuments & Controls 02.95.95. Controls

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

03. Recreation Areas

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2.49 0.17 0.25 20,000 20000.00 4.46 0.22 66.74 TOTAL COST UNIT COST 1326.20 126.26 830,637 830637.44 830,637 830637.44 142.77 2.498,978 1326.20 202,908 126.26 584,836 4.46 0.17 0.25 142.77 180,746 66.74 0.22 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 20,000 0 0.83 LABOR EQUIPMNT MATERIAL 963.00 147,339 126.26 584,836 0.00 0.00 42.80 26.75 169,328 0.00 0.00 735,190 735,190 0 0.00 00.0 0.00 0.00 00.00 0.00 7,911 0.00 7,911 7,911 2.75 363.20 55,569 0.25 99.97 126,561 0.00 39.99 253,123 3,612 0.22 87,537 87,537 13.89 0.01 2,34 MANHRS 00.0 0.01 3,876 3,876 0.94 741 0.01 186 OUTPUT 43.75 0.29 0.00 78.75 1.71 4.27 50.00 112.50 90.63 20844 SF ACMACEFI1 153.00 TON SIWRRODM4 20844 SF ACMACEFI1 1266.00 LF UOELEQLT4 6330.00 LF UOELEQLT4 20844 SF ACMACEFI1 QUANTY UOM CREW ID CLABC20 3612.00 SF ACARC1 N/A 4632.00 CY 4632.00 CY 1.00 EA 1.00 SF 1.00 LF B RSM AA <02144 1100 > Wellpoints, compl instl, ea addl month, 600' L header, 8" dia NOTE: Use for 5 additional months (5 x 1266) MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over $12^{\rm n},~4~{\rm use}$ B USR AA <02144 1001 > Wellpoints, compl instl, first month, 600' L header, 8" dia M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 04.01.01.01.02. Special Foundation Conditions 04.01.01.01.01.01. Wall Foundations TOTAL Standard Foundations 04.01.01.01.01. Standard Foundations TOTAL Recreation Areas TOTAL Wall Foundations 04.01.01.01.02.04. Dewatering broom finish 04.01.01.01. Substructure 04. Pump Stations 04.01. Pump Station 1 - C43P1 04.01.01. Pump Station 1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	TUATUO C	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	JNIT COST
USR AA <02161 0001 > Steel Sheet Pile	38104 SF CPIDB40	95.63	0.08	3.40	1.62	16.05	0.00	21.07	21.07
M RSM AA <03326 0100 > Concrete ready mix, regular weight, 2500 psi NOTE: Use for Tremie Concrete	14804 CY N/A	00.00	0.00	0.00	0.00	74.90 1,108,820	0.00	74.90	74.90
MIL AA <03372 4650 > Placing conc, slab on grade, over 6" thick, pumped NOTE: Use for Iremie Concrete	14804 CY CLABC20	23.13	0.35 5,121	5.95 88,100	3.69	00.0	0.00	9.64 142,768	9.64
M MIL AA <03217 0700 > Reinforcing in place, walls, to #7 NOTE: Use for I Wall	#3 12.60 TON SIWRRODM4	OM4 0.38	10.67	278.93 3,515	0.00	963.00 12,134	0.00	1241.93 15,648	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi NOTE: Use for Anchor Wall	645.00 CY N/A	0.00	0.00	0.00	0.00	126.26 81,438	00.00	126.26 81,438	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped NOTE: Use for Anchor wall	C, 645.00 CY CLABC20	13.75	375	10.01 6,456	6.21 4,006	00.0	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids NOTE: Use for Anchor Wall	16811 SF ACMACEFI1	FI1 67.50	0.01	0.29	00.0	0.03 540	0.00	0.32 5,395	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood NOTE: Use for I Wall	Jr, 16811 SF ACARC2	54.38	0.11	2.08	00 0	0.81	0.00	2.90	2.90
MIL AA <02161 2550 > Sheet piling, stl, connections struts, 2/3 salvage, wales	s & 33.00 TON ACARF4	0.15	40.00	1195.15	675.86	199.91 6,597	00.00	2070.92	2070.92
TOTAL Dewatering	1.00 SF		21,148	686,640	142,836	2,058,280	0	2,887,756	2887756
TOTAL Special Foundation Conditions	1.00 SF		21,148	686, 640	142,836	2,058,280	0	2,887,756	2887756
04.01.01.01.04. Foundation Excavation									
04.01.01.01.04.01. Excavation for Basements									
USR AA <02228 0371 > Excavate, wet soil	42930 CY CODEB12C	2c 256.50	0.01	0.39 16,584	0.29	0.00	0.00	0.68	0.68
CIV AA <02228 0392 > Excavate, mom soil, 3CY excavator	62319 CY CODEB12Y	2Y 288.50	0.01	0.39	0.31	0.00	00.0	0.70	0.70

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal

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ov. Submittal 04. Pump Stations

1.58 2.98 0.17 72428.63 9.91 TOTAL COST UNIT COST 72428.63 126.26 3790822 1326.20 21656.07 2.98 9.91 126.26 6,944 1326.20 72,429 1.58 0.17 72,429 3,790,822 21,656 00.00 0.00 0.00 OTHER 0 0 0.00 0.00 0.00 0 0.43 1.14 0.00 0.00 126.26 6,944 963.00 c 0 EQUIPMNT MATERIAL 182,574 2,793,470 13,662 0.00 0.00 0.00 0.00 3.80 0.00 31,827 31,827 209 814,778 0.00 1.16 LABOR 1.83 0.17 6.12 363.20 1,246 7,785 40,602 40,602 26,007 0.06 0.10 0.36 0.00 0.01 13.89 OUTPUT MANHRS 983 983 397 62.50 61.88 0.00 0.29 112,50 22.50 2776.00 SF ACMACEFI1 3.43 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 2776.00 SF ACARC2 552.00 LF ACARC1 N/A 55.00 CY 55.00 CY 1.00 CY 1.00 SF 1.00 SF 1.00 CY MIL AA <03396 0010 > Finishing floors, monolithic, screed finish Note: Use for elevated slab and roof slab for control room CIV AA <03150 7000 > Forms in place, elev slab, edge form to 6" high, 4 use Note: Use for elevated slab and roof slab for control room CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' high 4 use Note: Use for elevated slab and roof stab for control room AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped Note: Use for elevated slab and roof slab for control room M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi
Note: Use for elevated slab and roof slab for control room M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 Note: Use for elevated slab and roof slab for control room 04.01.01.02.01.03. Floor Decks and Slabs TOTAL Excavation for Basements TOTAL Foundation Excavation TOTAL Floor Decks and Slabs 04.01.01.02.01. Floor Construction TOTAL Substructure 04.01.01.02. Superstructure 04.01. Pump Station 1 - C43P1 AF

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 04. Pump Stations PROJECT C43RES:

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2.90 0.32 2.90 16.22 0.32 2.90 16.22 TOTAL COST UNIT COST 1241.93 126.26 390,623 390622.82 1241.93 126.26 162,613 162612.90 1241.93 9,935 2.90 2.90 1241.93 27,695 1241.93 126.26 0.32 126.26 85,099 16.22 10,932 0.32 2.90 16.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0 0 0.81 963.00 126.26 204,920 0.03 0.81 963.00 21,475 126.26 85,099 0.00 0.03 0.81 963.00 MATERIAL 00.0 280,978 116,788 0.00 0.00 0.00 6.21 0.00 0.00 EQUIPMNT 6.21 00.0 0.00 00.0 00.0 4,186 10,080 LABOR 2.08 278.93 0.00 10.01 0.298,317 2.08 25,183 278.93 6,220 0.00 10.016,746 0.29 41,639 2.08 278.93 99,565 0.11 10.67 0.11 10.67 0.00 0.58 0.01 5,120 10.67 0.00 392 0.01 2,142 0.11 MANHRS 0.00 13.75 67.50 00.0 13.75 0.38 OUTPUT 54.38 0.38 0.38 67.50 54.38 ACMACEF11 22.30 TON SIWRRODM4 ACMACEF11 8.00 TON SIWRRODM4 53.70 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 ACARC2 12083 SF ACARC2 ACARC2 N/A 4740.00 SF 1623.00 CY 28800 SF 674.00 CY 674.00 CY 12083 SF 28800 SF 1623.00 CY 1.00 CY 1.00 CY AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built 04.01.01.02.01.52. Intake Bays EL -6 to EL -3.5 MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 04.01.01.02.01.51. Intake Bays EL -16 to EL -6 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 9 MIL AA <03398 0010 > Finishing walls, break ties MIL AA <03398 0010 > Finishing walls, break ties patch voids TOTAL Intake Bays EL -16 to EL 04.01.01.02.01.50. Intake Zone patch voids TOTAL Intake Zone plywood 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

1241.93

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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DETAIL PAGE

04. Pump Stations

2.49 16.22 0.32 4.46 0.17 16.22 0.32 2.90 TOTAL COST UNIT COST 126.26 1326.20 126.26 128,883 128883.10 1241.93 126.26 434,099 434099.13 126.26 32,575 4.46 0.17 2.90 1241.93 70,790 2.49 1326.20 126.26 44,822 126.26 215,905 16.22 0.32 4,185 0.32 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 126.26 00.0 0.03 0.83 963.00 11,556 126.26 44,822 00.0 0.81 963.00 54,891 126.26 215,905 0.03 EQUIPMNT MATERIAL 00.0 101,990 302,227 1.71 0.00 6.21 00.0 0.00 0.00 0.00 6.21 10,620 0.00 0.00 2,209 0.00 0.00 10,620 LABOR 10.01 2,582 0.29 1.65 363.20 4,358 0.00 2.75 0.17 24,684 2.08 278.93 0.00 10.01 17,115 0.29 977 121,252 0.58 13.89 0.58 0.01 00.0 0.01 0.11 10.67 608 00.0 0.01 6,255 OUTPUT MANHRS 57 0.00 13.75 0.29 0.00 50.00 00.0 13.75 67.50 43.75 112.50 0.38 67.50 ACMACEF11 ACMACEF11 ACMACEF11 12.00 TON SIWRRODM4 57.00 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 CLABC20 37184 SF ACARC2 ACARC1 N/A N/A 1589.00 SF 3828.00 SF 1710.00 CY 37184 SF 258.00 CY 258.00 CY 4740.00 SF 355.00 CY 355.00 CY 1710.00 CY 1.00 CY ζ 1.00 MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 04.01.01.02.01.53. Pipe Gallery EL 10 to EL 22 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped MIL AA <03398 0010 > Finishing walls, break ties & patch voids ou MIL AA <03396 0010 > Finishing floors, monolithic, TOTAL Intake Bays EL -6 to EL -3.5 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 22 MIL'AA <03398 0010 > Finishing walls, break ties M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 TOTAL Pipe Gallery EL 10 to EL patch voids 04.01. Pump Station 1 - C43P1

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

EQUIP ID: C43RES LABOR ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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DETAIL PAGE

04. Pump Stations

4.46 2.90 16.22 0.32 2.49 0.17 4.46 OTHER TOTAL COST UNIT COST 1241.93 126.26 263,370 263369.60 1326.20 126.26 242,286 242286.26 1326.20 126.26 1241.93 44,710 2.90 126.26 136,992 16.22 0.32 2.49 1326.20 57,026 4.46 5,745 1326.20 108,748 126.26 162,623 126.26 311,988 4.46 11,021 0.17 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0.81 963.00 34,668 126.26 136,992 00.0 0.03 0.83 963.00 41,409 126.26 162,623 00.0 963.00 78,966 126.26 311,988 00.00 MATERIAL 639 188,488 0.00 209,577 0.00 0.00 6.21 0.00 6,739 0.00 1.71 1.71 EQUIPMNT 0.00 00.0 0.00 0.00 00.0 2,200 LABOR 278.93 10,042 1.65 2.08 0.00 10.01 0.29 68,143 363.20 15,617 0.00 2.75 0.17 363.20 29,782 0.00 2.75 6,801 30,510 0.11 2,196 0.58 0.01 0.16 395 10.67 0.00 0.09 13.89 0.00 $0.01 \\
19$ 1,430 13.89 1,1390.00 OUTPUT MANHRS 597 3,506 54.38 0.38 0.00 0.29 00.0 50.00 0.29 0.00 13.75 67.50 43.75 112.50 50.00 2176.00 SF ACMACEFI1 ACMACEF11 43.00 TON SIWRRODM4 82.00 TON SIWRRODM4 36.00 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 CLABC20 19908 SF ACARC2 ACARC1 N/A N/A 19908 SF 1085.00 CY 6644.00 SF 1288.00 CY 2471.00 CY 1085.00 CY 1288.00 CY 2471.00 CY 1.00 CY 1.00 CY 04.01.01.02.01.61. Pipe Gallery Slab EL 7 to EL 10 MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built edge forms, 04.01.01.02.01.54. Intake Bays EL -3.5 to EL 7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped ou MIL AA <03396 0010 > Finishing floors, monolithic, screed finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03398 0010 > Finishing walls, break ties patch voids TOTAL Intake Bays EL -3.5 to EL 7 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 MIL AA <03170 3060 > Forms in place, SOG, e wood, over 12", 4 use 04.01.01.02.01.60. Fill Concrete TOTAL Fill Concrete plywood 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOLA UPB ID: UPOLEA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 04. Pump Stations PROJECT C43RES:

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DETAIL PAGE

2.05 4.46 0.17 2.98 0.17 2.05 2.98 0.17 4.46 TOTAL COST UNIT COST 448,561 448560.81 126.26 1326.20 461,776 461776.24 126.26 1326.20 2.05 4.46 2.98 38,970 0.17 4.46 1326.20 0.17 2.98 2.05 126.26 56,943 126.26 .03,443 1326.20 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0 0.00 0.00 0.00 1.14 0.40 1,043 0.00 126.26 298,857 963.00 0.40 1.14 0.00 126.26 56,943 963.00 EQUIPMNT MATERIAL 1,213 390,175 394,904 1.71 0.00 0.00 0.00 0.00 0.00 00.0 1.71 0.00 0.00 4,043 00.0 4,220 0.00 00.0 LABOR 0.17 1.83 1.65 49,436 0.17 2.75 00.0 363.20 1.65 1.83 23,980 2.75 0.00 363.20 5,448 67,559 0.09 0.09 0.10 0.01 0.00 13.89 0.01 0.10 246 2,219 0.00 1,083 3,201 MANHRS 13.89 0.29 43.75 0.29 61.88 43.75 50.00 00.00 50.00 00.0 OUTPUT 112.50 61.88 112.50 112.50 ACMACEF11 ACMACEF11 22239 SF ACMACEFI1 78.00 TON SIWRRODM4 15.00 TON SIWRRODM4 Ω CLABC20 CLABC20 ACARC1 ACARC2 ACARC2 ACARC1 QUANTY UOM CREW N/A N/A 451.00 CY 2634.00 SF 2367.00 CY 3065.00 SF 13093 SF 5236.00 SF 2539,00 SF 21200 SF 2367.00 CY 451.00 CY 1.00 CY 1.00 CY 04.01.01.02.01.62. Operating Deck Slab EL 22-EL 25 TOTAL Pipe Gallery Slab EL 7 to EL 10 CIV AA <03150 1500 > Forms in place, elev slab, flat plave 15'-20' nign 4 use AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use TOTAL Operating Deck Slab EL 22-EL 25 CIV AA <03150 1500 > Forms in place, elev slab, flat place 15'-20' nign 4 use MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped o MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 04.01.01.02.01.63. Service Bridge EL 16 04.01. Pump Station 1 - C43P1 ΑF ΑF

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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04. Pump Stations

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4.46 2.05 2.98 2.90 0.17 4.46 2.49 0.17 99217.89 1326.20 33835.30 126.26 1326.20 TOTAL COST UNIT COST 126.26 2.05 2.98 99,218 0.17 4.46 2.49 0.17 4.46 2,703 126.26 76,514 1326.20 26,524 2.49 8,210 2.90 126.26 19,570 1326.20 6,631 33,835 0.00 0.00 0.00 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.00 0 0 0.83 0.40 0.81 0.00 0.00 0.00 0.83 1.14 77,259 0.00 126.26 19,570 963.00 4,815 126.26 76,514 963.00 19,260 EQUIPMNT MATERIAL 26,266 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 1,71 0 0.00 0 770 1.71 265 265 2.08 1.65 7,305 0.17 363.20 1.65 LABOR 1.65 1.83 0.17 2.75 1,668 0.00 21,189 0.00 363.20 1,816 427 13.89 302 0.10 0.00 0.09 0.16 377 0.11 0.01 13.89 0.01 0.00 OUTPUT MANHRS 1,063 25 69 363 16 54.38 0.00 0.29 0.00 0.29 43.75 43.75 61.88 112.50 50.00 43.75 112.50 50.00 ACMACEF11 2180.00 SF ACMACEFIL 5.00 TON SIWRRODM4 20.00 TON SIWRRODM4 QUANTY UOM CREW ID 155.00 CY CLABC20 ACARC2 ACARC1 3700.00 SF ACARC2 ACARC1 N/A N/A 606.00 CY 4128.00 SF 2029.00 SF 155.00 CY 276.00 SF 10617 SF 3303.00 SF 606.00 CY 1.00 CY 1.00 MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built MIL AA <03170 3060 > Forms in place, SOC, edge forms, wood, over 12", 4 use edge forms, AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nign, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plawe 15'-20' nigh 4 use MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 on MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0010 > Finishing floors, monolithic, M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 04.01.01.02.01.65. Miscellaneous Slabs MIL AA <03170 3060 > Forms in place, SOG, e wood, over 12", 4 use TOTAL Service Bridge EL 16 04.01.01.02.01.64. Entrance Ramps TOTAL Entrance Ramps screed finish plywood 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

2.49

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
		! ! ! ! !		1						
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	148.00 SF	ACARC2	61,88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	, 1954.00 SF	ACARC2	54.38	0.11 216	2.08	0.00	0.81	0.00	2.90	2.90
MIL AA <03158 0150 > Forms in place, footing, continuous wall, plywood, 4 use	1712.00 SF	ACARC1	60.63	0.07	1.19	00.0	0.83	0.00	2.03	2.03
TOTAL Miscellaneous Slabs	1.00 CY		•	1,114	22,609	1,035	101,718	0	125,361	125361.32
04.01.01.02.01.66. Fuel Oil Storage Area										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7		6.00 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	82.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	82.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	2544.00 SF	ACMACEF11	67.50	0.01	0.29	00.0	0.03	0.00	0.32	0.32
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	14.00 TON	N SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	185.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 23,358	0.00	126.26	126.26
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	185.00 CY	CLABC20	22.50	0.36	6.12 1,132	3.80	00.0	0.00	9.91	9.91
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	4995.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03158 0150 > Forms in place, footing, continuous wall, plywood, 4 use	910.00 SF	ACARC1	60.63	0.07	1.19	0.00	0.83	0.00	2.03	2.03
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8" high, 4 use, job built plywood	2544.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 2,069	0.00	2.90	2.90
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	347.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

TIME 09:25:13 DETAIL PAGE 27

04.01. Pump Station 1 - C43P1	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
TOTAL Fuel Oil Storage Area	1.00 CY		•	826	17,270	1,211	56,171	0	74,653	74652.71
04.01.01.02.01.75. Sand Fill										
B AF AA <02234 4100 > Sand Fill, hauling, w/loading, 12 CY truck, 5 mile haul,	3730.00 CY	CODEB30	119.70	0.03	1.00	1.42	0.00	0.00	2.42	2.42
AF AA <02220 5810 > Compaction, steel wheel tandem roller, 10 ton	3730.00 CY	COFCB10Y	337.50	0.00	0.15	0.09	0.00	0.00	0.24	0.24
MIL AA <02220 9040 > Compaction, water, wagon, 6000 gal, 6 mile haul	3730.00 CY	COFWB59	200.00	0.01	0.19	0.33	0.21	0.00	0.73	0.73
MIL AA <02216 5510 > Backfill, strl, 6" lifts, by machine, no compaction, around foundation	3730.00 CY	CODEB12A	121.88	0.02	0.81	0.40	0.00	0.00	1.21	1.21
AF AA <02220 7060 > Compaction, struct/trench, 8" lifts, 2 passes 18" wide, vib plate	3730.00 CY	COFCB18	53.75	0.06	0.69	0.05	00.0	0.00	0.75	0.75
TOTAL Sand Fill	3730.00 CY		1	398	10,598	8,521	798	0	19,917	5.34
TOTAL Floor Construction	1.00 SF		1	29,264	589, 544	56,307	2,261,001	0	2,906,852	2906852
04.01.01.02.02. Roof Construction										
04.01.01.02.02.01. Structural Frame										
M MIL AA <05150 8210 > Structural steel Superstructure	300.00 TON SIWSE21	N SIWSE21	0.75	10.67	629.99 188,997	135.17	2140.00	0.00	2905.16 871,549	2905.16
M MIL AA <05150 8210 > Structural Stl Louver Enclosure	16.00 TON	N SIWSE21	0.75	10.67	629.99 10,080	135.17 2,163	2140.00	0.00	2905.16 46,483	2905.16
M MIL AA <05150 8210 > Pump Gear Base Plate	39.00 TON	N SIWSE21	0.75	10.67	629.99 24,570	135.17 5,272	2140.00	0.00	2905.16	2905.16
B MIL AA <05150 8210 > Engine Maintenance Platform	560.00 SF	SIWSE21	27.79	0.29	17.00	3.65	32.10 17,976	0.00	52.75 29,539	52.75
B MIL AA <05150 8210 > Roof Access Platform	8.00 SF	SIWSE21	27.79	0.29	17.00 136	3.65	32.10 257	0.00	52.75 422	52.75
M MIL AA <05150 8210 > Aux Equipment Support Platform	3.00 TO	3.00 TON SIWSE21	0.75	10.67	629.99	135.17 406	2140.00 6,420	0.00	2905.16 8,715	2905.16

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Atmy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

TIME 09:25:13 DETAIL PAGE 28

04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	NIT COST
M MIL AA <05518 0010 > Ladder, steel, 20" wide, bolted to conc, w/cage	52.00 VLF	SIWSE4	6.25	0.64	39.88	1,51	64.20	0.00	105.59	105.59
MIL AA <05523 0530'> Railing, pipe, steel, 2 rail, on stairs, primed, 2" dia	700.00 LF	SIWSE4	20.00	0.20	12.46	0.47	12.04	0.00	24.97	24.97
M MIL AA <05150 8210 > Stop Log Recess Armoring	28.00 TON	N SIWSE21	0.75	10.67	629.99	135,17	2140.00	0.00	2905.16	2905.16
USR AA <05060 0011 > Weld shear connectors, 3/4" dia, 4-1/2" long NOTE: Use at stop log recess armoring	2901.00 EA	SIWWElO	128.75	0.02	0.49	0.47	0.64	0.00	1.60	1.60
TOTAL Structural Frame	1.00 SF		•	4,499	265,058	56,010	857,900	0	1,178,968	1178968
04.01.01.02.02.03. Roof Decks and Slabs										
CIV AA <03150 7000 > Forms in place, elev slab, edge form to 6" nigh, 4 use Note: Use for elevated slab and roof slab for control room	672.00 LF	ACARCI	62.50	0.06	1.16	0.00	0.43	00.0	1,58	1.58
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use Note: Use for elevated slab and roof slab for control room	21168 SF	ACARC2	61.88	0.10	1.83	00.0	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish Note: Use for elevated slab and roof stab for control room	21168 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	3,668	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped Note: Use for elevated slab and roof slab for control room	412.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9,91 4,084	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi Note: Use for elevated slab and roof slab for control room	412.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 52,019	0.00	126,26 52,019	126.26
M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7 Note: Use for elevated stab and roof stab for control room	25.75 TON	25.75 TON SIWRRODM4	0.29	13.89 358	363.20 9,352	00.0	963.00 24,797	0.00	1326.20 34,150	1326.20

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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04. Pump Stations

16.05 171.48 99.53 51.39 28002.59 339.99 18.71 TOTAL COST UNIT COST 157,989 157989.42 171.48 264.70 28002.59 1336957 4271811 28,003 339.99 171.48 2,744 264.70 2,647 171.48 16,119 99.53 4,180 51.39 28,003 16.05 1,336,957 4,271,811 557,348 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 OTHER 0 0 0 16.05 0.00 112.35 1,798 224.70 112.35 10,561 58.14 27.04 1,217 114,236 3,238,504 478,130 959,239 18,264 MATERIAL 101,339 18,264 1.51 1.46 2.15 0.89 355 0.00 64.35 EQUIPMNT 1,564 14,993 57,574 LABOR 56.98 912 38.55 56.98 5,356 39.88 23.46 9,384 919,072 0.00 275.65 64,225 9,384 55,086 320,144 64,225 0.62 0.00 4.99 2,789 7,288 0.91 0.91 0.64 0.38 151 1,164 151 36,702 MANHRS 1.60 OUTPUT 6.47 10.63 0.00 4.38 4.38 6.25 SIWSE7A QUANTY UOM CREW ID SIWSE4 SIWSE4 SIWSE4 42.00 VLF SIWSE4 45.00 VLF SIWSE4 N/A 1.00 VLF 1.00 FLT 29790 SF 233.00 EA 94.00 LF 16.00 LF 10.00 LF 1.00 SF 1.00 SF 1.00 SF 29790 SF MIL AA <05511 0020 > Stair, stl,grating trd & pipe r, 3'-6" W, saf nosing, stl strg Note: Use for control building Stair, stl.grating trd & pipe r, 3'-6" W, saf nosing, stl strg Note: Use for main pump station MIL AA <05518 0100 > Ladder, steer, 20" wide, bolted to conc, w/o cage Spiral Stairs 3'-6" W, saf nosing, stl strg Note: Use for control building MIL AA <05518 0010 > Ladder, steel, 20" wide, bolted M MIL AA <03454 0360 > Wall panel, 8' x 16', 6" thick, uninsulated, smooth grey, mat L MIL AA <03491 0010 > Precast erection, 100' max rad, 50 ton crane, 0-1 ton/pc, wall 04.01.01.02.03.01. Interior Stair Structure TOTAL Interior Stair Structure TOTAL Roof Decks and Slabs TOTAL Stair Construction 04.01.01.03.01.01. Exterior Skin TOTAL Roof Construction 04.01.01.02.03. Stair Construction TOTAL Superstructure TOTAL Exterior Skin 04.01.01.03.01. Exterior Walls 04.01.01.03. Exterior Closure USR AA <05511 0021 > MIL AA <05511 0020 > 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOIA UPB ID: UP01EA

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U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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30% Submittai 04. Pump Stations

4.46 0.22 431.19 126.26 0.17 0.25 100.43 TOTAL COST UNIT COST 1326.20 31384.39 588,733 588732.56 13291.74 13291.74 31,384 431.19 3,881 100.43 1326.20 5,729 126.26 13,636 4.46 0.17 0.22 0.25 41.28 13,292 13,292 OTHER 0.00 0.00 0.00 0.00 0.00 0 00.0 0.00 0 0.00 0.00 0 00.0 0 0 0 3,640 79.05 711 0.83 963.00 126.26 13,636 0.00 31.04 9,995 9,995 9,995 0.00 0.00 0.00 499,010 EQUIPMNT MATERIAL 20,881 0.00 0.00 0.00 1.71 00.0 0.00 0.00 0.00 0 0 0.00 184 15,178 LABOR 1.65 6,102 363.20 1,569 2.75 0.17 0.22 0.25 74,544 10.24 26.73 21.38 00.0 10,319 3,297 3,297 0.16 1.33 1.07 13.89 00.0 0.01 0.01 0.01 1,699 53 53 9 536 MANHRS OUTPUT 1.50 1.88 43.75 0.29 0.00 78.75 12.13 50.00 112.50 90.63 322.00 SF SIWSSSWK2 ACMACEF11 3696.00 SF ACMACEFI1 9.00 EA ACARCARP2 ACARCARP2 4.32 TON SIWRRODM4 ACMACEF 11 QUANTY UOM CREW ID CLABC20 3696.00 SF ACARC1 9.00 EA 108.00 CY 3696.00 SF 3696.00 SF 108.00 CY 1.00 LF 1.00 SF 1.00 SF 1.00 SF MIL AA <08109 1160 > Com1 stl dr, fl,pair 3'x7'-0", full pnt hol core,18 ga, 1.75" T MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use MIL AA <03372 2950 > Placing conc, foundation mats, over 20 CY, pumped MIL AA <08116 2940 > Steel frames KD, 3'-0" W, single, 16 ga, 4.75" D, 7'-0" M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <08524 6580 > Aluminum Windows projected wdo, grade C, std brush fin M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 04.01.01.03.03. Exterior Personnel Doors TOTAL Exterior Windows 04.01.01.03.03.02. Solid Doors TOTAL Exterior Walls 04.01.01.03.02. Exterior Windows 04.01.01.03.01.04. Parapets 04.01.01.03.02.01. Windows TOTAL Parapets TOTAL Windows 04.01. Pump Station 1 - C43P1

UPB ID: UP01EA

CREW ID: NATO1A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittell 04. Pump Stations

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2.91 179.85 140.54 732.23 13378.96 13378.96 15.37 3257.42 124.34 TOTAL COST UNIT COST 49.25 2213.57 113.54 615,403 615403.27 3,257 2213.57 2,214 13,379 49.25 15.37 124.34 870 2.91 113.54 1,590 179.85 140.54 732.23 13,379 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10 OTHER 0 0 15.37 115.72 810 1.68 113.54 159.80 113.82 12.58 1755.37 554.04 1,108 11,380 3,257 11,380 520,386 MATERIAL 15,178 EQUIPMNT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0.00 8.62 LABOR 0.00 20.05 26.73 241 36.67 458.20 458 178.19 356 00.0 1.23 1,999 1,999 79,839 0.00 1.00 1.33 2.00 22.86 8.89 1,853 0.00 0.40 0.06 101 101 MANHRS OUTPUT 0.09 0.00 2.50 0.00 1.00 0.75 0.50 0.23 17.50 2.00 EA ACARCARP2 1.00 EA ACARCARP2 ACARCARP1 ACARCARP1 APTRPORD1 7.00 EA MSHMSHEE1 296.00 LF MSHMSHEE1 QUANTY UOM CREW ID N/A 212.00 CSF N/A 14.00 PR 9.00 EA 9.00 EA 9.00 EA 1.00 SF 1.00 EA 1.00 EA 1.00 SF Overhead coml, no frame, manual, 10' x 10' H, steel, 24 ga MIL AA <07512 4420 > Built-up roofing, bond, 20 years MIL AA <09924 0320 > Int. painting, wood door & HM frame, natural finish door, ptd MIL AA <08715 8540 > Lockset, std duty, entr series, cy1, w/sect trim, brass base, US26D Overhead coml, no frame, chain hoist, 20'x14'H, steel, 24 ga MIL AA <08713 1795 > Hinge, half mortise, US4, high freq, brass base, 4.5" x 4.5" MIL AA <08728 8000 > Door closer, traditional, std quty, parrallel arm, primed, surf mtd MIL AA <07621 0400 > Downspouts, aluminum 3" x 4", .024" thick, enameled MIL AA <07725 0500 > Roof drains, scupper, sst, tapered, 4" to 8" x 8" x 5" 04.01.01.04.01.06. Gutters and Downspouts TOTAL Exterior Personnel Doors Note: Use for 14' x 14' 04.01.01.04.01.01. Roof Coverings TOTAL Exterior Closure TOTAL Roof Coverings TOTAL Solid Doors sectional 04.01.01.04.01. Roofing MIL AA <08361 2800 > MIL AA <08361 2650 > 04.01.01.04. Roofing 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

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30% Submittal 04. Pump Stations

100.43 3.49 3.49 4.71 5118.20 8375.62 8375.62 17004.98 17004.98 431.19 122.13 TOTAL COST UNIT COST 124.34 122.13 122124.34 4.71 2,640 3,49 3.498,902 17,005 17,005 431.19 3,881 100.43 5,118 8,376 8,376 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 OTHER 0 0 0 115.72 2.27 1.54 404.46 3,640 79.05 553 95.40 95 6,532 1,54 7,502 EQUIPMNT MATERIAL 3,274 6,532 7,502 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 0.00 0 0 LABOR 8.62 2,44 1,844 1,844 1.95 1.95 9,503 26.73 241 21.38 150 26.73 27 1,844 9,503 1.33 0.40 0.13 0.10 0.10 1.33 1.07 95 487 95 487 MANHRS OUTPUT 50.00 1.50 1.88 1.50 50.00 46.25 2.50 9.00 EA ACARCARP2 1.00 EA ACARCARP2 ACARCARP2 6.00 EA MSHMSHEE1 Ω 561.00 SF AMABD9 2320.00 SF AMABD8 2549.00 SF AMABD8 QUANTY UOM CREW 7.00 EA 1.00 SF 1.00 SF 1.00 LF 1.00 SF 1.00 SF MIL AA <08109 1160 > Com1 stl dr, fl,pair 3'x7'-0", full pn1 hol core,18 ga, 1.75" T ou CMU, back-up, 8" x 8" x 16", no scaffreinf, 2000 psi Note: Use for control room exterior CMU, back-up, 8" x 8" x 16", no scaf/reinf, 2000 ps.
Note: Use for control room MIL AA <08116 2940 > Steel frames KD, 3'-0" W, single, 16 ga, 4.75" D, 7'-0" high MIL AA <08116 2960 > Steel frames KD, 6'-0" W, double, 16 ga, 4.75" D, 7'-0" high MIL AA <04234 0450 > CMU, back-up, 12" x 8" x 16", scaf/reinf, 2000 psi Note: Use for overflow drain MIL AA <07725 0500 > Roof drains, scupper, sst. tapered, 4" to 8" x 8" x 5" 04.01.01.05.02.01. Standard Interior Doors TOTAL Gutters and Downspouts 04.01.01.05.02. Interior Personnel Doors interior walls 04.01.01.05.01.01. Fixed Partitions TOTAL Fixed Partitions 04.01.01.05. Interior Construction TOTAL Partitions TOTAL Roofing TOTAL Roofing 04.01.01.05.01. Partitions MIL AA <04234 0350 > CMU, MIL AA <04234 0350 > CMU, 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
								: 		; ; ; ; ; ; ;
MIL AA <08713 1795 > Hinge, half mortise, US4, high freq, brass base, 4.5" x 4.5"	13.50 PR	N/A	0.00	0.00	0.00	0.00	113.54	0.00	113.54	113.54
MIL AA <08715 8540 > Lockset, std duty, entr series, cy1, w/sect trim, brass base, US26D	9.00 EA	ACARCARP1	1.00	1.00	20.05	0.0	159.80	0.00	179.85	179.85
MIL AA <08728 8000 > Door closer, traditional, std duty, parrallel arm, primed, surf mtd	9.00 EA	ACARCARP1	0.75	1.33	26.73	0.00	113.82	0.00	140.54 1,265	140.54
MIL AA <09924 0320 > Int. painting, wood door & HM frame, natural finish door, ptd frame	9.00 EA	APTRPORD1	0.50	2.00	36.67	0.00	12.58 113	0.00	49.25	49.25
MIL AA <08361 2700 > Overhead coml, no frame, manual, 12' x 12' H, steel, 24 ga sectional Note: Use for 9' x 12'	, 1.00 EA	ACARCARP2	0.19	10.67	213.83	0.00	747.38	00.0	961.21	961.21
TOTAL Standard Interior Doors	1.00 EA			70	1,382	0	9,145	0	10,527	10526.64
TOTAL Interior Personnel Doors	1.00 EA			70	1,382	0	9,145	0	10,527	10526.64
04.01.01.05.04. Interior Specialties										
04.01.01.05.04.01. Guard Rails Toilet Partitions										
USR AA <05523 0960 > Guard Rail (3 - Rail 1-1/2" Dia) NOTE: Use control building) 124.00 LF	SIWSE4	17.39	0.23	14.33	0.54	28.89	0.00	43.76	43.76
USR AA <05523 0960 > Guard Rail (3 - Rail 1-1/2" Dia) NOTE: Use for main pump station) 272.00 LF	SIWSE4	17.39	0.23	14,33	0.54	28.89	0.00	43.76 11,904	43.76
TOTAL Guard Rails	1.00 EA			91	5,676	214	11,440	0	17, 331	17330.82
TOTAL Interior Specialties	1.00 SF			91	5,676	214	11,440	0	17,331	17330.82
TOTAL Interior Construction	1.00 SF			648	16,561	214	28,087	0	44,862	44862.45

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04. Pump Stations

9.10 1.03 1.03 6.80 2.32 33257.81 39445.33 2525.29 OTHER TOTAL COST UNIT COST 6187.52 9.10 1.03 1.03 6.80 2.32 6,188 39,445 2,525 33,258 0.00 0.00 0.00 0.00 0 0.00 0 0 0 7.49 5.19 1,296 0.33 0.33 5,093 10,738 LABOR EQUIPMNT MATERIAL 15,832 2,069 0.00 0.00 0.00 0.00 0.00 0 0 0 0.33 0.70 0.70 1.61 1.61 456 1,094 22,519 23,614 0.04 0.08 0.02 0.08 0.04 1,284 1,227 23 MANHRS 57 23.75 62.50 OUTPUT 23.75 26.36 26.36 2584.00 SF APTRPORD1 29790 SF APTRPORD1 651.00 SF ATIFTILF1 QUANTY UOM CREW ID MIL AA <09312 3160 > Ceramic tile, face mtd, $2" \times 2"$, adh bed, cush edge, mosaic floor 149.00 SF ATIFD7 ATIFD7 680.00 SF SF 1.00 SF 1.00 SF 1.00 SF 1.00 04.01.01.06.01.04. Tile and Terrazzo Wall Finishes M MIL AA <09312 5950 > Ceramic tile, thin set, 2" x 2", back mounted, unglz mosaic wall TOTAL Tile and Terrazzo Wall Finishes L MIL AA <09924 0110 > Int. painting, conc & CMU surfaces, 1 ct primer, 2 ct finish, brush Notes: Use for Main Pump Station Notes: Use for Main Pump Station MIL AA <09661 7400 > Resilient, vinyl composition tile, 1/8" thick, solid Note: Use for control room L MIL AA <09924 0110 > Int. painting, conc & CMU surfaces, 1 ct primer, 2 ct finish, brush Note: Use for control room Note: Use for control room Note: Use for control room 04.01.01.06.02. Flooring and Floor Finishes 04.01.01.06.02.01. Tile Floor Finishes 04.01.01.06.01.05. Painting to Wall TOTAL Tile Floor Finishes TOTAL Painting to Wall TOTAL Wall Finishes 04.01.01.06.01. Wall Finishes 04.01.01.06. Interior Finishes 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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04. Pump Stations

0.34 0.34 1.73 0.67 0.49 1.33 1.33 28478.87 7106.35 9631.65 2833.79 TOTAL COST UNIT COST 0.34 0.34 7,106 9,632 1,73 0.67 0.49 2,834 1.33 1.33 28,479 0.00 0.00 0.00 0.00 0.00 OTHER 0.00 0.00 0 0 0 0.16 0.16 1,47 0.33 0.33 3,316 0.43 345 5,384 2,195 7,127 EQUIPMNT MATERIAL 0.00 0.00 0.00 0.00 00.0 0.00 0.00 0 0 0 317 0.99 0.18 0.18 4,247 0.25 0.14 LABOR 0.27 3,791 638 21,352 0.01 0.01 0.01 0.05 0.05 1,165 0.01 0.01 217 32 MANHRS 194 75.00 18.45 81.25 18.45 OUTPUT 106.25 106.25 143.75 288.00 SF ACMACEFI1 20370 SF ACMACEFI1 ACARCARP1 ACARCARP1 ACARCARP1 APTRPORD1 APTRPORD1 QUANTY UOM CREW ID 977.00 SF 977.00 SF 21168 SF 319.00 SF 977.00 SF 1.00 SF 1.00 SF 1.00 SF 1.00 SF 04.01.01.06.03.04. Acoustical Ceiling Tiles & Panel 04:01.01.06.03.06. Painting and Staining Ceilings MIL AA <07218 0860 > Wall/ceiling insul, 6" thk, R19, 15" W, fbgls, unfaced, batt/blkt MIL AA <09134 0300 > Suspension sys for board & tile, 2' x 2' grid, class A, I bar TOTAL Acoustical Ceiling Tiles & Panel MIL AA <03396 2000 > Finishing floors, add, hardener, metallic, .50 PSF, light 04.01.01.06.02.08. Painting and Staining Floors MIL AA <03396 2000 > Finishing floors, add, hardener, metallic, .50 PSF, light finish, brush Note: Use for Main Pump Station Note: Use for Main Pump Station Note: Use for control building TOTAL Painting and Staining Ceilings MIL AA <09514 0900 > Susp acst clg bds,24" x 24", 5/8" T, no spnsn sys, at fcd, TOTAL Painting and Staining Floors L MIL AA <09924 0110 > Int. painting, conc & CMU surfaces, 1 ct primer, 2 ct finish, brush L MIL AA <09924 0110 > Int. painting, conc & CMU surfaces, 1 ct primer, 2 ct TOTAL Flooring and Floor Finishes Note: Use for Control room 04.01.01.06.03. Ceiling and Ceiling Finishes mnri fbr service 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

31312.66

31,313

9,323

0

21,990

1,196

1.00 SF

TOTAL Ceiling and Ceiling Finishes

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
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04.01. Pump Station 1 - C43Pl	QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
			,							
TOTAL Interior Finishes	1.00 SF			2,698	49,851	0	30,539	0	80,390	80389.64
04.01.01.07. Mechanical										
04.01.01.07.10. Piping										
04.01.01.07.10.01. Drainage System										
USR ME <15172 2200 > Steel Pipe 96"	425.00 LF	MP LUQ2	2.34	1.28	49.66	0.00	1037.90 524,080	0.00	1087.56	1292.13
USR ME <15172 2201 > Steel Pipe 72"	425.00 LF	MP LUQ2	3.75	340	30.94	0.00	872.05	00.00	902.99	1072.84
USR ME <15178 3001 > Coupling 96"	12.00 EA	MPLUQ16	0.03	103.09	3986.59 56,838	58.70 837	1070.00	0.00	5115.29 72,930	6077.48
USR ME <15178 3002 > Coupling 72"	12.00 EA	MPLUQ16	0.03	86.96	3362.60 47,941	49.51 706	888.10 12,662	0.00	4300.21	5109.09
USR ME <15178 3003 > Saxophone Discharge on 96" Pipe	2.00 EA	MPLUQ16	0.01	600.00	23201.95 55,132	341.64	12840.00 30,510	00.0	36383.59 86,455	43227.35
USR ME <15178 3004 > Saxophone Discharge on 72" Pipe	2.00 EA	MPLUQ16	0.01	545.45	21092.68 50,120	310.58 738	10700.00	00.00	32103.27 76,284	38141.89
TOTAL Drainage System	1.00 LF		•	5,457	250,730	3,093	3,093 1,048,268	0	1,302,090	1302090
04.01.01.07.10.02. Vacuum Priming System										
MIL ME <15172 2160 > Pipe, steel, 12" dia, sched 40, black, PE, no coupling/hanger	480.00 LF	MPLUQ2	4.38	0.69	26.52 15,122	0.00	36.18 20,631	0.00	62.69	74.49
MIL ME <15172 2110 > Pipe, steel, 4" dia, sched 40, black, PE, no coupling/hanger	40.00 LE	MPLUQ1	8.00	0.25	9.40	0.00	4.75	0.00	14.15	16.81
USR ME <15178 4661 > Reducer, 1" x 3/4"	4.00 EA	MPLUQ15	2.00	1.00	37.60	0.85	12.84	0.00	51.30	60.95
AF ME <15193 7840 > Valves, brz, 3", rdcg, hi cap, 250 PSI to 25-75 PSI, thd NOTE: Use for 3" x 2-1/2 " Relief Valve	1.00 EA	MPLUPLUM1	1.00	1.00	40.80	0.00	1088.32	0.00	1129.12	1341.51
MIL ME <15178 4684 > Reducer, eccentric, std wt, weld jt, 10" x 6" NOTE: Use for 10" x 3" reducer	4.00 EA	MPLUQ16	0.38	8.00	309.36	4.56	114.02	0.00	427.93	508.43

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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PROJECI C43Rest Storage Reservoir - South Florida Water Management
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OTHER TOTAL COST UNIT COST 929.15 4700.89 6331.68 272.63 2552.42 1199.67 1991.87 1009.74 782.05 3956.65 5329.25 25,327 229.47 1676.52 15,935 2148.32 10,210 0.00 0.00 0.00 0.00 0.00 0.00 3782.45 421.15 2,001 3183.25 109.14 519 1444.50 1726.47 LABOR EQUIPMNT MATERIAL 258.85 7.59 0.00 0.00 0.00 0.00 0.00 8.54 1546.80 580.05 515.60 3,675 232.02 421.85 120.33 15.00 20.00 40.00 3.20 6.00 13,33 10.91 44 OUTPUT MANHRS 27 0.15 0.20 0.23 0.08 0.63 0.50 0.28 QUANTY UOM CREW ID 4.00 EA MPLUQ16 MPLU016 4.00 EA MPLUQ2 4.00 EA MPLUQ2 MPLU02 MPLU02 MPLUQ1 2.00 EA 4.00 EA 8.00 EA 4.00 EA Lubricated plug valve, flanged,
200 psi MIL ME <15194 1250 > Valves, IB, lever actuator, 4", 200 lb, butterfly, wafer type MIL ME <15194 6090 > Valves, iron body, swing check, 125 lb, flanged, 10" USR ME <15194 1301 > Motor Oper Butterfly Valve 10" 200 lb, butterfly, wafer type USR.ME <15178 4695 > Reducer, eccentric, 18" x 10", std wt, weld jt USR ME <15178 4700 > Reducer, eccentric, 18" x 12", std wt, weld jt USR ME <15199 7061 > Plug Valve 12" USR ME <15199 7062 > Plug Valve 16" 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

612.63

515.64 2,451

0.00

315.09

0.00

953 200.55

21

0.38

MPLU01

4.00 EA

MIL ME <15194 6060 > Valves, iron body, swing check, 125 lb, flanged, 4"

USR ME <15194 6061 > Motor Operated Check valve 4"

USR ME <15194 3701 > Motor Operated Gate Valve 6" OS&Y, flanged, 6"

USR ME <15194 3761 > Air Operated Vent Valve 12"

5.33

1890.92

1591.55 15,127

0.00

1391.00

0.00

200.55

5.33

0.38

MPLU01

8.00 EA

2369.80

1994.61 2,370

0.00

1685.25

00.0

309.36

8.00

0.38

MPLU02

1.00 EA

4430.64

3729.18 26,584

0.00

3183.25 22,692

0.00

545.93

14.12

0.21

MPLU02

6.00 EA

14122.76

11886.85

0.00

76,467

10726.75

0.00

1160.10 8,270

30.00

0.10

MPLU02

EA 00.9 14758.40

12421.85

0.00

11261.75

0.00

1160.10 5,513

30.00

0.10

MPLU02

4.00 EA

USR ME <15194 3792 > Motor Operated Vent Valve 16" OSEY, flanged, 18"

USR ME <15194 3791 > Air Operated Vent Valve 16"

UPB ID: UP01EA

ID: NAT01A

CREW

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93. Submittal
04. Pump Stations

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75.97 75.97 TOTAL COST UNIT COST 119.99 119.99 584.14 15997.88 105.27 75.97 5066.27 105.27 731.31 1341.51 352,498 352498.37 13465.10 15,998 101.00 4264.18 20,265 1129.12 101.00 63.95 491.66 2,337 615.53 2,925 88.60 63.95 63.95 4,938 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0.00 00.0 0.00 78.60 78.60 45.26 9,679 45.26 3718.25 445.02 2,115 548.27 2,606 71.42 1088.32 45.26 2,151 14,620 EQUIPMNT MATERIAL 619 12305.00 289,648 0.00 00.0 0.00 0.00 00.0 0.00 0.00 0.00 0.00 0.00 0.00 84 LABOR 545.93 46.63 1160.10 67.26 320 17.18 40.80 22.39 22.39 18.68 3,996 18.68 18.68 17.18 163 62,766 30.00 3.20 0.42 1,374 1.04 1.04 0.89 1600.89 0.89 14.12 56 0.42 1.00 MANHRS 0.10 2.38 1.00 2.25 OUTPUT 2.38 0.88 0.63 2.88 2.88 2.25 2.25 0.21 4.00 EA MPLUPLUM1 MPLUPLUM1 1.00 EA MPLUPLUM1 MPLUPLUM1 QUANTY UOM CREW ID MP LUQ2 MSPFQ6 MPLU02 MSPFQ5 MSPFQ6 MSPFQ5 MSPFQ5 MSPFQ5 4.00 EA 8.00 EA 4.00 EA 15.00 LF 120.00 LF 65.00 LF 1.00 EA 4.00 EA 180.00 LF 40.00 LF 1.00 LF Bellows, flgd ends, 4" dia, sst, 150 lb, w/intl sleeves & ext MIL ME <15197 5380 > Valves, steel, 1", forged, ball valve, 800 lb, threaded MIL ME <15188 2422 > Pipe conduit, prefab, casing, 6", 1"polyurethane insul, FRP MIL ME <15188 2422 > Pipe conduit, prefab, casing, 6", 1"polyurethane insul, FRP MIL ME <15188 2420 > Pipe conduit, prefab, casing, 4", 1"polyurethane insul, FRP MIL ME <15188 2420 > Pipe conduit, prefab, casing, 4", l"polyurethane insul, FRP MIL ME <15188 2420 > Pipe conduit, prefab, casing, 4", 1"polyurethane insul, FRP 04.01.01.07.10.03. Cooling Water Supply System USR ME <15194 3762 > Motor Operated Vent Valve 12" carrier NOIE: 6" Casing & 3" Carrier carrier NOTE: 4" Casing & 2" Carrier NOTE: 6" Casing & 4" Carrier NOTE: 4" Casing & 1" Carrier USR ME <15194 3791 > Solenoid Gate Valve 18" USR ME <15193 3611 > Solenoid Gate Valve 1" TOTAL Vacuum Priming System USR ME <15193 0001 > Barometric Tube 24" USR ME <15197 5381 > Dry Contact Valve covers ٨ MIL ME <15625 1160 04.01. Pump Station 1 - C43P1

UPB ID: UP01EA

CREW ID: NAT01A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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				100	MANHKS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	Į.
	4"Casing & 3/4" Carrier										İ
MIL ME <15188 2420	> Pipe conduit, prefab,casing,4", 1"polyurethane insul, FRP carrier NOTE: 4" casing, 1-1/2" carrier	200,00 LF	MSPFQ5	2.25	0.89	18.68 4,440	0.00	45.26 10,755	0.00	63.95 15,195	
MIL ME <15172 2150	<15172 2150 > Pipe, steel, 10" dia, sched 40, black, PE, no coupling/hanger	600.00 LF	MP LUQ2	5.00	0.60	23.20	0.00	25.69	0.00	48.89	
MIL ME <15172 2130	<15172 2130 > Pipe, steel, 6" dia, sched 40, black, PE, no coupling/hanger	15.00 LF	MPLUQ2	6.75	0.44	17.19	0.00	12.19	0.00	29.37	
MIL ME <15172 2090	<15172 2090 > Pipe, steel, 3" dia, sched 40, black, PE, no coupling/hanger	600.00 LF	MPLUQ1	8.88	0.23	8.476,041	0.00	3.19	0.00	11.66	
MIL ME <15172 1360	<15172 1360 > Pipe, steel, 2" dia, thd, sched 40, galv, no coupling/hanger	30.00 LF	MPLUQ1	13.00	0.15	5.79	0.00	1.85	0.00	7.64	
MIL ME <15172 1320	<15172 1320 > Pipe, steel, 3/4" dia, thd, sched 40, galv, no coupling/hanger	10.00 LF	MPLUPLUM1	14.50	0.07	2.81	0.00	0.79	0.00	3.61	
USR ME <15690 9411	> Level Gauge & Transmitter	3.00 EA	MSPFSTP11	0.08	12.00	268.24	0.00	2942.50 10,488	0.00	3210.74	3814.68
MIL ME <15660 0980	<pre><15660 0980 > Pressure rgitr, 1.5", 125#, wet/super htd, monel trim, thd, IB, prcs st</pre>	3.00 EA	MSPESTPI1	1.63	0.62	13.75	0.00	310.33 1,106	0.00	324.08 1,155	385.04
MIL ME <15197 5560	MIL ME <15197 5560 > Ball valve, steel, 150 lb, flanged, 4"	1.00 EA	MPLUQ1	0.38	5.33	200.55	0.00	445.42	0.00	645.97	
USR ME <15197 5559	USR ME <15197 5559 > Ball valve, steel, 150 lb, flanged, 3"	6.00 EA	MPLUQ1	0.57	3.50	131.69	0.00	304.95	0.00	436.64	
AF ME <15197 5400	<15197 5400 > Valves, steel, 1.5", forged, ball valve, 800 lb, threaded	4.00 EA	MPLUPLUM1	1.63	0.62	25.11	0.00	124.39	0.00	149.50	
MIL ME <15197 5380	<15197 5380 > Valves, steel, 1", forged, ball valve, 800 lb, threaded	7.00 EA	MPLUPLUM1	2.38	0.42	17.18	0.00	71.42	0.00	88.60	
MIL ME <15197 5370	MIL ME <15197 5370 > Valves, steel, 3/4", forged, ball valve, 800 lb, threaded	5.00 EA	MPLUPLUM1	2.50	0.40	16.32	0.00	56.18	0.00	72.50	
MIL ME <15197 5360	MIL ME <15197 5360 > Valves, steel, 1/2", forged, ball valve, 800 lb, threaded	2.00 EA	MPLUPLUM1	3.00	0.33	13.60	0.00	42.94	0.00	56.54	
MIL ME <15194 6060	MIL ME <15194 6060 > Valves, iron body, swing check, 125 lb, flanged, 4"	1.00 EA	MPLUO1	0.38	5.33	200.55	0.00	315.09	0.00	515.64	

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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75.97 85.11 TOTAL COST UNIT COST 209.56 518.77 124.88 1050.35 173.79 211.93 457.73 244.23 6892.34 3898.11 64397.19 906.50 622.94 54201.82 257,589 385.26 915 5801.14 6,892 63.95 176.39 205.56 3280.96 762.99 4,533 436.64 884.06 4,201 146.28 348 178.38 424 524.32 4,361 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 53500.00 121.98 304.95 64.20 3,657 53.50 254 128.40 305 160.50 381 363.80 864 162.64 5350.00 631.30 3,750 459.03 3,818 45.26 MATERIAL 2942.50 10,488 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 EQUIPMNT 0.00 0 LABOR 54.41 194 131.69 40.91 114.46 544 18.14 86 17.88 17.88 21.46 51 42.92 451.14 338.46 1,206 3,335 131.69 65.29 18.68 3.50 1.00 5.33 0.44 08.0 0.80 1.00 2.00 12.00 9.00 32.00 128 3.50 1.60 0.89 MANHRS OUTPUT 2.25 0.75 0.57 1.00 0.56 2.25 1.25 1.25 3.00 1.50 0.17 0.22 0.13 0.57 0.63 MSPFSTP11 MP LUP LUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MSPFSTP11 QUANTY UOM CREW ID MSPFQ6 MSPFQ5 MSPF06 MSPFQ6 MPLU01 MPLUQ1 MPLU01 MSPFQ7 MPLU01 4.00 EA 3.00 EA 2.00 EA ΕÀ EA EA 5.00 EA 9.00 EA 4.00 EA 2.00 EA 4.00 EA 1.00 EA 3.00 EA 7.00 EA 15.00 LF 2.00 2.00 4.00 sst, USR ME <02681 0012 > Fuel Oil Receiving Connection 4" USR ME <13205 3189 > Fuel Oil Storage Tank 25,000 gai Double Walled, Fire & Ballistic mdb USR ME <15194 6030 > Valves, iron body, swing check, 125 lb, flanged, 3" MIL ME <15194 4550 > Valves, iron body, globe, OS&Y, class 125, flanged, 2" USR ME <15188 2419 > Pipe conduit, prefab, casing,4", 1"polyurethane insul, FRP MIL ME <15194 5998 > Valves, iron body, swing cneck, 125 lb, flanged, 1.5" Valves, iron body, swing check, 125 lb, flanged, 3/4" carrier NOTE: 4" Casing & 1/2" Carrier USR ME <15286 4302 > Fuel Oil Transfer Pump 20 gpm MIL ME <15625 1190 > Bellows, figd ends, 8" dia, s 150 lb, w/intl sleeves & ext covers USR ME <15286 4301 > Fuel Oil Receiving Pump 225 USR ME <15176 0012 > Flexible Connection 3/4" straight, Buna-N seat oils/gas/chem USR ME <15176 0013 > Flexible Connection 1/2" USR ME <02681 0013 > Fuel Oil Filter 3" inlet USR ME <15194 4560 > Globe Valve 3" USR ME <15411 0011 > Flame Arrestor Resistant USR ME <15194 5990 > ' 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
			 	 					1	
USR ME <15162 3040 > Stainless Steel Pipe 8"	18.00 LF	MPLUQ1	2.50	0.80	30.12	0.00	115.56	0.00	145.68 3,115	173.08
MIL ME <15199 1050 > Valves, semi-steel, 1" pipe, lubricated plug valve, threaded, 200 psi	3.00 EA	MPLUPLUM1	1.75	0.57	23.32	0.00	84.26 300	0.00	107.58 383	127.81
USR ME <15660 0011 > Pressure Indicator	3.00 EA	MSPFSTP11	0.50	1.99	44.36	00.0	160.50	0.00	204.86	243.39
M MIL ME <15174 5914 > Stl ftg, 150# MI, black, reducer, concentric, 4" NOTE: Use for 4" x 3" reducer	1.00 EA	MPLUQ1	1.25	1.60	60.16 71	00.0	179.76 214	0.00	239.92 285	285.05
M MIL ME <15178 4670 > Reducer, eccentric, std wt, weld jt, 6" x 4"	2.00 EA	MPLUQ16	0.63	4.80	185.62	2.73	310.30	0.00	498.65	592.44
M MIL ME <15178 4682 > Reducer, eccentric, std wt, weld jt, 10" x 8"	3.00 EA	MPLUQ16	0.38	8.00	309.36	4.56	417.30	0.00	731.21 2,606	868.76
USR ME <15178 4686 > Reducer 10" x 4"	2.00 EA	MPLUQ16	0.38	8.00	309.36 735	4.56	417.30	0.00	731.21	868.76
AF ME <15698 1110 > Strainers, Y type, 10" pipe size, bronze body, flanged, 150 lb NOTE: Use for self cleaning strainer	6.00 EA	MSPFQ6	0.25	12.00	257.54	0.00	5437.42 38,761	0.00	5694.95 40,597	6766.17
MIL ME <15698 1100 > Strainers, Y type, 6" pipe size, bronze body, flanged, 150 lb NOTE: Use for self cleaning strainer	4.00 EA	MSPFQ6	0.38	8.00	171.69 816	0.00	2686.13	0.00	2857.82 13,581	3395.37
USR ME <15660 0011 > Pressure Indicator	20.00 EA	MSPFSTPI1	0.50	1.99	44.36	0.00	160.50	0.00	204.86	243.39
USR ME <15194 3513 > Solenoid Gate Valve 2"	10.00 EA	MPLUPLUM1	0.50	1.99	81.30	0.00	963.00 11,441	0.00	1044.30	1240.73
USR ME <15194 3509 > Solenoid Gate Valve 3"	4.00 EA	MPLUPLUM1	0.33	3.01	122.72 583	0.00	1284.00	0.00	1406.72 6,685	1671.32
MIL ME <15194 6090 > Valves, iron body, swing check, 125 lb, flanged, 10"	3.00 EA	MPLUQ2	0.28	10.91	421.85 1,504	0.00	1726.47	00.00	2148.32	2552.42
MIL ME <15194 6070 > Valves, iron body, swing check, 125 lb, flanged, 6"	2.00 EA	MPLUQ2	0.38	8.00	309.36 735	0.00	539.28	0.00	848.64	1008.27

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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04. Pump Stations

75.97 75.97 5327.47 1638.26 881.10 581.89 119.99 119.99 TOTAL COST UNIT COST 430.35 3959.25 693.26 2353.88 572,414 572413.82 362.22 2,152 3332.42 7,919 4484.02 1378.89 6,553 741.61 489.76 583.50 2,773 1981.22 9,416 101.00 101.00 63.95 63.95 9,117 0 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 509.59 304.15 78.60 78.60 45.26 6,453 321.00 7,628 4280.00 15,255 1069.53 5,083 508.25 1605.00 45.26 MATERIAL 3210.00 502,219 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 EQUIPMNT 00.0 0.00 34 LABOR 41.22 245 75.25 358 22.39 18.68 5,550 18.68 2,664 309.36 232.02 185.62 22.39 122.42 204.02 727 376.22 1,788 291 70,162 1.01 5.00 8.00 6.00 2.00 1.04 0.89 3.00 4.80 10.01 1.04 0.89 OUTPUT MANHRS 1,949 0.63 1.00 0.20 2.88 2.88 2.25 0.99 0.33 0.20 0.38 0.50 2.25 5.00 EA MPLUPLUM1 MPLUPLUMI MPLUPLUM1 QUANTY UOM CREW ID MPLUQ2 MPLU02 MP LUQ2 MPLUQ1 MSPF06 MSPFQ6 MSPFQ5 MSPFQ5 4.00 EA MPLUQ1 120.00 LF 2.00 EA 3.00 EA 4.00 EA 10.00 LF 400.00 LF 4.00 EA 12.00 EA 7.00 EA 250.00 LF 1.00 LF 04.01.01.07.10.04. Waste Fuel & Engine Oil System CIV ME <15194 0860 > Valves, IB, gear operated, 10", butterfly, 200 lb, 200 PSI, lug CIV ME <15194 0840 > Valves, IB, gear operated, 6", butterfly, 200 lb, 200 FSI, lug MIL ME <15188 2422 > Pipe conduit, prefab, casing, 6", 1"polyurethane insul, FRP MIL ME <15188 2420 > Pipe conduit, prefab, casing, 4", 1"polyurethane insul, FRP MIL ME <15188 2420 > Pipe conduit, prefab, casing, 4", 1"polyurethane insul, FRP MIL ME <15188 2422 > Pipe conduit, prefab, casing, 6", 1"polyurethane insul, FRP carrier NOTE: 6" Cassing & 3" Carrier carrier NOTE: 6" Casing & 4" Carrier carrier NOIE: 4" Casing & 1" Carrier USR ME <15199 7010 > Motor Operated Plug Valve 4" NOTE: 4" Casing & 2" Carrier TOTAL Cooling Water Supply System USR ME <15193 7950 > Pressure Reducing Valve 10" .9 MIL ME <15197 5570 > Ball valve, steel, 150 lb, flanged, 6" USR ME <15193 7900 > Pressure Reducing Valve USR ME <15193 0001 > Combination Air Valve USR ME <15197 0010 > Needle Valve 3" flanged, 4" 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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						ADGRA	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	LINO
MIL ME <15188 2420 > Pipe conduit, prefab, casing, 4", 1"polyurethane insul, FRP carrier carrier # 4" Parier & 3.7" Carrier	refab, casing, 4", insul, FRP	30.00 LE	MSPFQ5	2.25	0.89	18.68	0000	45.26	00.0	63.95	75.97
USR ME <15188 0011 > Pipe Conduit, Reducer	educer 2" x 1.5"	8.00 EA	MSPFQ6	1.37	2.20	47.12	0.00	1498.00	00.0	1545,12	1834 74
USR ME <15188 0012 > Pipe Conduit, Re	Reducer 1" x 1/2"	4.00 EA	MSPFQ6	1.43	2.10	45.07	0.00	1364.25	0.00	1409.32 6,698	1674.
USR ME <15188 0013 > Pipe Conduit, R	Reducer 4" x 3"	3.00 EA	MSPFQ6	1.25	2.40	51.51 184	0.00	1578.25	0.00	1629.76	1936.31
USR ME <15190 5411 > Ball valve, steel, flanged, 3"	el, 150 lb,	8.00 EA	MPLUQ1	1.00	2.00	75.25 715	0.00	240.75	0.00	316.00	375.44
MIL ME <15197 5410 > Valves, steel, 2", forge valve, 800 lb, threaded	2", forged, ball threaded	7.00 EA	MPLUPLUM1	1.38	0.73	29.68	0.00	164.51	0.00	194.19	230.72
MIL ME <15197 5370 > Valves, steel, 3/4" ball valve, 800 lb,	3/4", forged, 1b, threaded	2.00 EA	MPLUPLUM1	2.50	0.40	16.32	0.00	56.18 133	0.00	72.50	86.13
MIL ME <15194 6660 > Valves, IB,for 125 flg,3", silent chk, type	125 or 150 lb chk, compact wfr	2.00 EA	MPLUQ1	1.00	2.00	75.21	0.00	176.34 419	0.00	251.54 598	298.86
MIL ME <15194 6640 > Valves, IB, for 125 of fig.2", silent onk, type	125 or 150 lb cnk, compact wfr	4.00 EA	МР ЕОРЕЙМІ	1.13	0.89	36.27	0.00	149.80 712	0.00	186.07	221.07
MIL ME <15199 1050 > Valves, semi-steel, lubricated plug val 200 ps.	eel, 1" pipe, valve, threaded,	6.00 EA	MPLUPLUM1	1.75	0.57	23.32	0.00	84.26	0.00	107.58	127.81
AF ME <15194 3504 > Gate valve, iron body, lb, threaded, 3/4"	body, OS&Y, 225/4"	4.00 EA	MPLUPLUM1	2.25	0.44	18.14 86	0.00	412.63	0.00	430.77	511.80
MIL ME <15193 5125 > Valves, bronze, 1" dia, class 300, rising stem,	1" dia, globe, ng stem, threaded	4.00 EA	MPLUPLUM1	2.38	0.42	17.18	0.00	107.14	0.00	124.32	147.70
USR ME <15660 0011 > Pressure Indicator	cor	3.00 EA	MSPFSTPI1	0.50	1.99	44.36	0.00	160.50	0.00	204.86	243.39
USR ME <15690 9411 > Level Gauge & Transmitter	ransmitter	4.00 EA	MSPFSTPI1	0.08	12.00	268.24	0.00	2942.50 13,984	0.00	3210.74	3814.68
USR ME <15411 0011 > Flame Arrestor		4.00 EA	MPLUPLUM1	2.25	0.44	18.14 86	0.00	53.50	0.00	71.64	85.11

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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04. Pump Stations

TOTAL COST UNIT COST 457.73 12921.00 12921.13 1708.74 6564.79 5293.53 2354.11 1129.06 1416.72 1240.73 241,726 241726.47 187.90 166.47 139.38 2219.21 10875.46 25,842 1438.22 13,670 5525.46 13,130 1981.40 4,708 1192.42 2,833 385.26 4455.46 950.30 1044.30 3,722 117.31 1867.86 8,877 158.15 140.11 25,842 10875.35 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER ! 0 10700.00 10700.00 363.80 1391.00 5350.00 4280.00 1605.00 3,814 909.50 6,483 1070.00 2,543 3,432 99.51 3,547 85.60 32,544 1605.00 7,628 MATERIAL 963.00 213,903 0.00 0.00 0.00 0.00 00.0 0.00 0.00 0.00 00.0 0.00 0 0.00 0.00 0.00 0.00 EQUIPMNT 175.46 175.46 175.46 LABOR 21.46 175.35 47.22 376.40 894 31.71 12,056 262.86 40.80 122.42 291 81.30 27,823 46.87 1,447 291 1.00 8.00 8.00 2.20 8.00 8.00 10.01 1.99 0.82 6.99 1.00 3.00 1.05 MANHRS 1,032 0.50 3.66 0.29 3.00 0.50 0.50 1.36 0.50 0.50 0.20 1.00 0.33 2.48 2.86 OUTPUT MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 QUANTY UOM CREW ID MSPFQ6 MSPFQ7 MSPFQ6 MSPFQ7 MSPFQ7 MP LUQ2 MPLU02 MPLU02 MSPFQ7 MP LUQ1 MPLU01 2.00 EA EA ΕA 2.00 EA ΕÀ EA ΕA ΕĀ 2.00 EA 6.00 EA 3.00 EA 댐 10.00 LF 320.00 LF 1.00 LF 4.00 2.00 2.00 8.00 2.00 30.00 4.00 USR ME <15162 3040 > Silencer 8" Stainless Steel 304L USR ME <13205 0011 > Waste Lube/FO Collection Tank, 1200 gal, Doubled Walled & Fire Resistant USR ME <13205 0013 > Fuel Oil Day Tank, 775 gal Double Walled, Fire & Ballistic Resistant USR ME <02681 0011 > Pump Truck Piping Connection 4" USR ME <13205 0012 > Waste Lube/Fuel Oil Tank, 1200 gal, Double Walled, Fire & Ballistic Resistant Inner TOTAL Waste Fuel & Engine Oil System USR ME <15172 0001 > Perma Pipe 6" Casing, 4" Inner 2" Inner USR ME <15174 5912 > Perma Pipe Reducer 2" x 1-1/2" 0014 > Pipe Conduit, Reducer 2" x 1" 04.01.01.07.10.05. Lube Oil Supply System USR ME <13205 0014 > Fuel Oil Day Tank, 425 gal <u>.</u> USR ME <15194 3512 > Solenoid Gate Valve 1" 2 USR ME <15172 0003 > Perma Pipe 4" Casing, Casing, USR ME <15194 3513 > Solenoid Gate Valve USR ME <15193 7822 > Three Way Valve 3" .9 USR ME <15172 0002 > Perma Pipe USR ME <15188 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT
USR ME <15174 5913 > Perma Pipe Reducer 4" x 3"	2.00 EA	MPLUQ1	0.22	9.00	338.46	00.0	1819.00	00.0	2157.46	2563.28
USR ME <15660 0011 > Pressure Indicator	9.00 EA	MSPFSTP11	0.50	1.99	44.36	0.00	160.50	0.00	204.86	243.39
USR ME <15690 9411 > Level Gauge & Transmitter	1.00 EA	MSPFSTP11	0.08	12.00	268.24	00.0	2942.50 3,496	0.00	3210.74 3,815	3814.68
USR ME <15197 5559 > Ball Valve 3"	3.00 EA	MPLUPLUM1	0.29	3.49	142.27	0.00	304.95	0.00	447.22	
MIL ME <15197 5410 > Valves, steel, 2", forged, ball valve, 800 lb, threaded	9.00 EA	MP LUP LUM1	1.38	0.73	29.68	0.00	164.51	0.00	194.19	
MIL ME <15194 6660 > Valves, IB, for 125 or 150 lb flg,3", silent chk, compact wfr type	2.00 EA	MPLUQ1	1.00	2.00	75.21 179	0.00	176.34 419	0.00	251.54 598	
MIL ME <15194 6640 > Valves, IB,for 125 or 150 lb flg,2", silent chk, compact wfr type	8.00 EA	MPLUPLUM1	1.13	0.89	36.27 345	0.00	149.80	0.00	186.07	
MIL ME <15199 1050 > Valves, semi-steel, 1" pape, Lubricated plug valve, threaded, 200 psi	1.00 EA	MPLUPLUM1	1.75	0.57	23.32	0.00	84.26	0.00	107.58 128	
MIL ME <15194 4550 > Valves, iron body, globe, OS&Y, class 125, flanged, 2"	2.00 EA	MPLUPLUM1	0.63	1.60	65.29 155	00.00	459.03 1,091	00.00	524.32 1,246	
AF ME <15194 3505 > Gate valve, iron body, OS&Y, 225 lb, threaded, 1"	4.00 EA	MPLUPLUM1	2.00	0.50	20.40	0.00	468.75	0.00	489.15	
USR ME <15194 3511 > Solehoid Gate Valve 1-1/2"	4.00 EA	MP LUP LUM1	1.01	0.99	40.50	0.00	936.25	0.00	976.75 4,642	1160.48
MIL ME <15605 0040 > Air control, separator, w/strainer, 2" dia NOTE: Use for moisture separator w/2" inlet	4.00 EA	MSPFQ5	0.75	2.67	56.05	0.00	552.76	0.00	608.81 2,893	
USR ME <15193 7821 > Three Way Valve 2"	2.00 EA	MPLUPLUM1	0.50	1.99	81.30	0.00	856.00 2,034	0.00	937.30	1113.61
USR ME <13205 3090 > Lube Oil Storage Tank 1200 gal	1.00 EA	MSPFQ7	0.67	6.00	131.53	0.00	2782.00 3,305	0.00	2913.53 3,462	3461.56
TOTAL Lube Oil Supply System	1.00 LF			440	19,342	0	75,099	, c	100 00	10 1000

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations PROJECT C43RES:

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4.28 8.26 16.86 67.18 TOTAL COST UNIT COST 154.72 612.63 405.16 105.27 375.44 402.44 1331.44 31.37 3443.64 243.39 3.60 6.95 14.19 130.22 515.64 1,225 88.60 1120.64 5,326 26.41 63 2898.44 204.86 2,434 56.54 134 316.00 1,610 341.02 338.73 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4.79 1008.54 0.74 1.63 83.59 315.09 220.69 71.42 42.94 240.75 318.33 2675.00 160.50 MATERIAL 102 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 0.00 00.0 00.0 00.0 EQUIPMNT 0 LABOR 136 9.40 46.63 200.55 120.33 17.18 122 20.40 44.36 5.32 13.60 75.25 268 112.11 533 223.44 265 0.07 0.14 0.25 1.14 3.20 0.42 0.50 5.33 10.00 1.99 MANHRS 5.33 11 0.33 2.00 0.53 14.13 8.00 0.88 0.38 0.63 2.38 3.00 1.00 2.00 0.38 1.88 0.10 0.50 OUTPUT 14.25 10.00 EA MSPFSTPI1 MPLUPLUM1 MP LUP LUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MSPFSTP11 MPLUPLUM1 QUANTY UOM CREW ID MP LUQ1 MSPFQ5 MPLU01 MP LUQ1 MPLU01 MPLU01 4.00 EA 40.00 LF ĽŁ 2.00 EA 2.00 EA 8.00 EA ΕÀ 2.00 EA 3.00 EA 4.00 EA EA EA 90.00 LF 00.9 2.00 1.00 30.00 04.01.01.07.10.06. Lubricating Water Supply System MIL ME <15172 0610 > Pipe, steel, no coupling/hanger, 2" dia, sched 40, black, MIL ME <15172 0650 > Pipe, steel, no coupling/hanger, 4" dia, sched 40, black, MIL ME <15698 1060 > Strainers, Y type, 4" pipe size, bronze body, flanged, 150 lb no coupling/hanger, CIV ME <15194 0820 > Valves, IB, gear operated, 4", butterfly, 200 lb, 200 PSI, lug type MIL ME <15193 6480 > Valves, bronze, 2", relief, pressure, water, ASME, threaded NOTE: Use for solenoid valve MIL ME <15197 5380 > Valves, steel, 1", forged, ball valve, 800 lb, threaded Valves, iron body, swing check, 125 lb, flanged, 4" MIL ME <15194 5994 > Valves, iron body, swing check, 125 lb, flanged, 1" MIL ME <15197 5360 > Valves, steel, 1/2", forged, ball valve, 800 lb, threaded USR ME <15197 5561 > Ball valve, steel, 150 lb, flanged, 2-1/2" ME <15172 0580 > Pipe, steel, no coupling, 1 dia, sched 40, black, threaded MIL ME <15174 5880 > Sti ftg, 150# MI, black, reducer, concentric, 1" USR ME <15660 0011 > Pressure Indicator USR ME <15690 9411 > Level Transmitter threaded MIL ME <15194 6060 > 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 04. Pump Stations PROJECT C43RES;

TIME 09:25:13

DETAIL PAGE

67.18 44.76 86.13 123.27 8.97 26.04 21.33 TOTAL COST UNIT COST 1600.63 430.35 23942.16 105.27 3443.64 380.21 8716.88 1347.22 1,601 103.76 2898.44 362.22 861 23,942 88.60 72.50 345 56.54 37.68 21.92 26 17.95 320.02 380 7.55 8,717 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0 0 1222.66 321.00 763 71.42 24.08 78.65 1,39 1.52 1.21 2675.00 3,178 252.76 300 MATERIAL 56.18 267 408 6,009 18,737 EQUIPMNT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0 00.0 0 0.00 0 LABOR 124.56 148 41.22 5,205 17.18 16.32 13.60 13.60 25.11 60 6.16 20.40 16.74 159 223.44 265 67.26 2,618 129 5.93 $\frac{1.01}{2}$ 0.42 0.41 140 0.40 0.33 0.33 0.62 0.15 0.50 3.20 MANHRS 9 10.00 OUTPUT 0.34 0.99 2.38 2.50 3.00 3.00 1.63 6.63 2.00 2.44 0.10 0.63 2.00 EA MPLUPLUM1 MPLUPLUM1 MSPFSTP11 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUMI MPLUPLUMI QUANTY UOM CREW ID EA MSPFQ5 MSPFQ5 200.00 LF 1.00 EA ΕÀ 4.00 EA 8.00 EA 2.00 EA 2.00 EA 1.00 EA 8.00 EA 1.00 EA 1.00 LF Ľ 1.00 16.00 1.00 Sys 04.01.01.07.10.07. Potable/Service Water Supply TOTAL Potable/Service Water Supply Sys TOTAL Lubricating Water Supply System MIL ME <15143 0747 > Coupling, copper, wrought, reducing, concentric, 1"
NOTE: Use for reducer 1" x 3/4" MIL ME <15197 5380 > Valves, steel, 1", forged, ball valve, 800 lb, threaded MIL ME <15193 1850 > Valves, bronze, 1/2", chk, swing, CL 150, regrinding disc, MIL ME <15193 1890 > Valves, bronze, 1.5", chk, swing, CL 150, regrinding disc, MIL ME <13205 3060 > Tanks, stl,550 gal,abv gnd,w/, cradles,ftg,no fdh/pmp/piping NOTE: Use for 500 gal tank MIL ME <15197 5370 > Valves, steel, 3/4", forged, ball valve, 800 lb, threaded MIL ME <15197 5360 > Valves, steel, 1/2", forged, ball valve, 800 lb, threaded MIL ME <15143 0749 > Coupling, copper, wrought, reducing, concentic, 1.5"
NOTE: Use for reducer 1-1/2" x 1" MIL ME <15142 2200 > Copper Pipe Type K 1" dia USR ME <15193 0001 > Combination Air Valve USR ME <13205 3039 > Storage Tank 200 gal Level Transmitter 9411 USR ME <15690 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

04. Pump Stations

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8.26 5.99 105.27 639.21 191.92 TOTAL COST UNIT COST 1216.58 466.28 230.72 177.62 581.16 464.53 504.95 181.64 723.33 1023.97 608.81 723 204.86 1,460 88.60 526 489.15 509.18 6.95 5.04 392.46 2,798 194.19 2,538 149.50 538.01 390.99 161.54 1,927 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 00 552.76 657 160.50 963.00 1.63 1.21 362.78 164.51 2,150 71.42 508.34 468.75 374.50 1,780 136.43 484.07 2,300 387.25 MATERIAL 124.39 1,034 1,297 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 EQUIPMNT 0.00 0.00 0.00 0.00 0.00 0 0.00 0 00.0 0 LABOR 44.36 5.32 3.83 29.68 29.68 25.11 17.18 29.68 20.40 16.49 78 25.11 25.11 18.14 86 56.05 67 209 97 239 0.42 0.73 0.44 2.67 1.99 0.14 0.10 0.73 0.73 0.62 0.50 0 0.40 ~ 0.62 S 2 2 MANHRS 0.75 OUTPUT 0.67 14.13 19.63 1.38 1.38 1.63 2.38 1.38 2.00 2.48 1.63 1.63 2.25 MPLUPLUM1 MP LUP LUM1 MP LUP LUM1 MP LUP LUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 MPLUPLUM1 QUANTY UOM CREW ID 1.00 EA MSPFQ5 MPLU01 MPLU01 ΕA ΕA EA EA 4.00 EA 4.00 EA 500.00 LF 11.00 EA 7.00 EA 5.00 EA 3.00 EA 4.00 EA 230.00 LF 00.9 4.00 8.00 4.00 class 150, rising stem, threaded MIL ME <15172 0610 > Pipe, steel, no coupling/hanger, 2" dia, sched 40, black, threaded 0600 > Pipe, steel, no coupling/hanger, 1-1/2" dia, sched 40, black, ME <15194 3505 > Gate valve, iron body, OS&Y, 225 lb, threaded, 1" MIL ME <15197 5410 > Valves, steel, 2", forged, ball valve, 800 lb, threaded MIL ME <15197 5380 > Valves, steel, 1", forged, ball valve, 800 lb, threaded Valves, iron body, swing check, 125 lb, threaded, 2" MIL ME <15194 3507 > Valves, gate, iron body, OS&Y, 125 lb, threaded, 2" USR ME <15193 7811 > Pressure Reducing Valve 1-1/2" RSM ME <15193 5670 > Valves, bronze, 1.5", relief, ME <15197 5400 > Valves, steel, 1.5", forged, ball valve, 800 lb, threaded MIL ME <15193 4990 > Valves, bronze, 1.5", globe, separator w/2" inlet 04.01.01.07.10.08. Compressed Air System MIL ME <15605 0040 > Air control, separator, w/strainer, 2" dia NOTE: Use for moisture ME <15194 3507 > Solenoid Gate Valve 2" thd, pressure & temp, self-close, ASME USR ME <15660 0011 > Pressure Indicator USR ME <15194 3503 > Gate valve 1/2" threaded > 0055 <15172 RSM ME <15194 04.01. Pump Station 1 - C43P1 Ä MIL MIL ΑE ΑF

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

0.50

6.00 EA MSPFSTPI1

UPB ID: UP01EA ID: NAT01A CREW

243.39

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 04. Pump Stations PROJECT C43RES;

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373.00 2628219 721.20 422.46 TOTAL COST UNIT COST 32390.05 2628219 746.79 1493.59 402.67 805.34 1143.65 313.95 607.02 721 355.57 422 32,390 628.56 1,494 338.92 1,144 2,628,219 2,628,219 805 1,494 0 0 0.00 0.00 0.00 OTHER 0.00 0.00 0 0 0 0 278.20 661 356.33 423 61.80 25,787 515.13 1,224 252.97 601 EQUIPMNT MATERIAL 3,211 2,179,760 3,211 2,179,760 601 497 0.00 0.00 0.00 0.00 0.00 0 LABOR 35.75 250.69 293.77 6,603 445,248 445,248 113.43 85.95 647 270 204 1.60 10,604 3.02 2.29 7.81 152 10,604 9 6.67 14 OUTPUT MANHRS 0.26 0.63 99.0 0.88 0.30 2.00 EA MSPFSTPI1 Π 2.00 EA MPLUQ1 2.00 EA MPLUQ1 1.00 EA MPLUQ1 1.00 EA MPLUQ1 QUANTY UOM CREW 1.00 LF 1.00 LF 1.00 EA 1.00 EA 1.00 EA 1.00 EA MIL PL <15248 3100 > Showers, stall, 36" x 36" sq, fbg1s, one PC, w/ 3 wall, w/door & trim MIL PL <15248 4200 > Showers, stall, rough-in, supply, waste and vent for above showers PL <15236 6120 > Lavatory, w/trim, single bowl w/bcksplsh, 24"x20", wall hung, vit cnina RSM PL <15280 1000 > Water clo, tank, 1 piece, vit china, seat, supply w/stop, fl TOTAL Compressed Air System USR ME <15176 0011 > Flexible Connection 04.01.01.08.01.05. Showers/Tubs 04.01.01.08.01.01. Waterclosets 04.01.01.08.01.03. Lavatories 04.01.01.08.01. Plumbing Fixtures TOTAL Waterclosets TOTAL Showers/Tubs TOTAL Mechanical TOTAL Lavatories TOTAL Piping 04.01.01.08. Plumbing 04.01. Pump Station 1 - C43P1 ĄΕ

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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		QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
04.01	04.01.01.08.01.06. Drinking Fountains & Coolers TOTAL Drinking Fountains & Coolers	1.00 EA			0	0	0	0	0	0	0.00
04.01	04.01.01.08.01.08. Service Sink										
MIL PL <152	MIL PL <15252 8980 > Sinks, w/faucets & dr, svce, for rgh-in, sply, W & vent, w1 svce	1.00 EA	MP LUQ1	0.16	12.27	461.38 548	0.00	262.28	0.00	723.66	859.78
MIL PL <152	MIL PL <15252 6650 > Sinks, w/faucets & drain, polthn on CI,28"x28", corner, floor, service	1.00 EA	MP LUQ1	0.55	3.64	136.74	0.00	506.55 602	0.00	643.29	764.29
	TOTAL Service Sink			1	16	711	0	913	0	1,624	
04.01	04.01.01.08.01.09. Kitchen Sink										
MIL PL <152	MIL PL <15252 3100 > Kitchen sink, W/ faucets & dr, SS, self rimming, 25" x 22" sgl bowl	2.00 EA	MP LUQ1	0.70	2.86	107.44 255	0.00	330.61	00.0	438.05 1,041	520.44
MIL PL <152	MIL PL <15252 4980 > Sinks, W/faucetsédr, kit, st, for rgh-in, sply, wévent, cntr top sks	2.00 EA	MPLUQ1	0.27	7.46	280.62	0.00	67.28 160	0.00	347.90 827	413.34
	TOTAL Kitchen Sink	1.00 EA		ı	21	922	0	945	0	1,868	1867.56
	TOTAL Plumbing Fixtures	1.00 EA		1	62	2,753	0	4,181	0	6,934	6934.22
04.01.01.	04.01.01.08.02. Domestic Water Supply										
04.01	04.01.01.08.02.01. Pipes and Fittings										
M MIL PL <151	M MIL PL <15142 2200 > Pipe copper type L, no coupiing no hanger 1" dia	50.00 LF	MPLUPLUM1	6,63	0.15	6.16	0.00	5,35	0.00	11.51	13.67
M MIL PL <151	M MIL PL <15142 2260 > Pipe copper type L, no coupling no nanger 2" dia	150.00 LF	MPLUPLUM1	3.88	0.26	10.53	0.00	7.49	0.00	18.02 3,211	21.41
	TOTAL Pipes and Fittings	1.00 EA		ı	46	2,243	0	1,653	0	3,895	3895.15
	TOTAL Domestic Water Supply	1.00 EA		,	46	2,243	0	1,653	0	3,895	3895.15

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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DETAIL PAGE

04. Pump Stations

10.20 6.44 OTHER TOTAL COST UNIT COST 1851.40 597.86 1793.59 3644.98 530.30 530.30 530.30 15004.65 10262.56 4583.27 8187.12 82,100 3656.37 293,329 446.34 8.58 5.42 322 1,851 503.21 1,794 15,005 1,794 3,645 530 530 0.00 0.00 0.00 0.00 0 0.00 0.00 0 0 0 0 6687.50 67,062 3156.50 253,227 3.10 1,579 1,579 283.12 LABOR EQUIPMNT MATERIAL 5.57 2,757 336 336 8,927 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 0 0 1499.62 499.87 3.01 2.31 60.16 214 163.22 6,078 674 214 888 194 194 1.60 68.38 22.79 0.08 90.0 20 4.00 132 MANHRS 90.0 0.18 OUTPUT 25.00 32.50 1.25 0.25 1.00 EA MPLUPLUM1 QUANTY UOM CREW ID 3.00 EA MPLUQ1 8.00 EA MSPFQ7 50.00 LF MPLUQ1 MSPFQ7 MPLU01 64.00 EA 150.00 LF 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 04.01.01.09.09.04.01. Air Distribution, Cooling and Heating no MIL PL <15132 4120 > Pipe CI soil, no hub, 2" dia, no cpl9, no hgr/jt, service weight MIL PL <15310 1080 > Water htr, resi, double element, 40 gal, elec, glass lined tank, 5 yr MIL PL <15132 4160 > Pipe CI soil, no hub, 4" dia, no cplg, no hgr/jt, service weight MIL PL <15107 2258 > Drains, fl, funnel type, 4" dia CI, bronze top, 4" pipe TOTAL Sanitary Waste and Vent System USR HV <15728 0002 > Louver Hurricane Type 90"x48" 04.01.01.08.05.01. Domestic Water Equipment USR HV <15728 0001 > Roll Filter Housing & Media 04.01.01.08.03. Sanitary Waste and Vent System 04.01.01.08.03.01. Waste Pipe and Fittings TOTAL Domestic Water Equipment TOTAL Waste Pipe and Fittings TOTAL Plumbing Equipment 04.01.01.09.04. Distribution Systems 04.01.01.08.03.03. Floor Drains 04.01.01.08.05. Plumbing Equipment TOTAL Floor Drains TOTAL Plumbing 04.01.01.09. HVAC 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43Res: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04 01 Pimm Station 1 - Cd3p1	O				- !			-		
	COCANII OO	COANIX COM CREW ID	TOALLOO	MANHKS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
USR HV <15728 0003 > Louver 78"x78"	r C C		·	22.79	499.87	00.0	1498.00	0.00	1997.87	
USR HV <15728 0004 > Louver 54"x54"				20.51	449.89	0.00	15,022	0.00	1305.89	2504.34
act act act act act act and act act and act act act act act act act act act act	4.00 EA	MSPFQ7	0.20	85	2,256	0	4,292	0	6,548	1636.93
USK HV <15/28 UUUS > LOUVEE: 60"x60"	2.00 EA	MSPFQ7	0.18	22.79	499.87 1,253	0.00	963.00 2,414	0.0	1462.87 3,667	1833.71
USR HV <15728 0003 > Fans	1.00 JB	MSPFQ7	0.01	512.82 513	11247.17 14,098	0.00	80785.00 101,264	0.00	92032.17 115,362	115362.33
USR HV <15728 0003 > Air Handling/Condensing Unit	1.00 JB	MSPFQ7	0.11	36.46 36	799.71	0.00	4280.00 5,365	0.00	5079.71 6,367	6367.41
USR HV <15728 0003 > Supply Fan Plenum	1.00 JB	MSPFQ7	0.02	266.67 267	5848.53 7,331	0.00	41807.04 52,405	0.00	47655.57 59,736	59736.26
USR HV <15728 0003 > Exnaust Fan Plenum	1.00 JB	MSPFQ7	0.20	20.51	449.89 564	0.00	3389.76 4,249	0.00	3839.65 4,813	4813.00
USR HV <15728 0003 > Door Plenum	1.00 JB	MSPFQ7	0.73	5.47	119.96 150	0.00	642.00 805	0.00	761.96 955	955.12
M RSM HV <15731 0560 > Duct, fab rect, 1000 - 2000 LB, incl ftg, galv stl	671.00 LB	MSHWQ10	33.13	0.09	1.88	0.00	3,75	0.00	5.62	7.05
USR HV <15750 0001 > Grilles, Registers, & Diffusers ompr,al,air sply,adj curved face bars	1.00 JB	MSHMSHEE1	0.14	6.96	150.06	0.00	786.45 986	0.00	936.51	1173.91
USR HV <15731 0001 > Missle Barrier	469.00 SF	MSHMQ10	2.07	1.45	30.00 17,637	0.00	80.25 47,178	0.00	110.25	138.20
TOTAL Air Distribution, Cooling and	1.00 MCF	Ŧ		3,905	106,211	0	557,419	0	663, 630	663630.09
TOTAL Distribution Systems	1.00 MBH	Œ,		3,905	106,211	0	557,419	0	663, 630	663630.09
04.01.01.09.06. Controls and Instrumentation										
04.01.01.09.06.90. Controls										
USR HV <15743 0001 > SCADA Console	1.00 LS	N/A	00.00	0.00	10000.00 12,535	0.00	53500.00 67,062	0.00	63500.00	79597.25
USR HV <15743 0001 > PV 1500	6.00 EA	N/A	00.0	0.00	1600.00 12,034	0.00	8560.00 64,380	0.00	10160.00 76,413	12735.56

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Atmy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

TIME 09:25:13 DETAIL PAGE 53

04.01. Pump Station 1	tion 1 - C43P1	QUANTY UOM	M CREW ID	TUGTOO	MANHRS	T.AROR	FOUTPMAT	MATERIAL	aanto	TOOO TIMIL TOOO INTO	FOOD ETMI
										TCOO TUTO!	10001110001
	USR HV <15743 0001 > UPS NOTE: USE PLC & SCADA System Network	8.00 EA	N/A	00.0	0.00	100.00	0.00	535.00 5,365	0.00	635.00	795.97
	USR HV <15743 0001 > Ethernet Switch Note: Use for PLC & SCADA System Network	8.00 EA	N/A	00.0	0.00	100.00	0.00	535.00	0.00	635.00	795.97
	USR HV <15743 0001 > Control Logix Plc	6.00 EA	N/A	00.00	0.00	2000.00	0.00	10700.00	0.00	12700.00 95,517	15919.45
	USR HV <15743 0001 > Scada Node No. 1	1.00 EA	N/A	0.00	00.00	1000.00	00.00	5350.00	0.00	6350.00	7959.72
	USR HV <15743 0001 > Scada Node No. 2 Structure	1.00 EA	N/A	0.00	0.00	1000.00	0.00	5350.00	0.00	6350.00 7,960	7959.72
	USR HV <15743 0001 > Alarm Printer Structure	1.00 EA	N/A	00.00	00.00	100.00	0.00	535.00 671	0.00	635,00	795.97
	B MIL HV <02230 4500 > Color Ink Jet Report Printer deep, 12" wide, cable, sand bedding	1.00 EA	COETR23	0.51	6.97 T	299.94 376	277.99	1605.00 2,012	0.00	2182.93	2736.31
	USR HV <15743 0001 > Plc/Moscad Server	1.00 EA	EELER18	0.06	54.37	1500.09	0.00	8025.00	0.00	9525.09 11,940	11939.71
	USR HV <15743 0001 > Loggernet Server	1.00 EA	N/A	0.00	0.00	1500.00	00.0	8025.00	0.00	9525.00 11,940	11939.59
	USR HV <15743 0001 > Redundant Control Logix PLC Structure	1.00 LS	N/A	0.00	00.0	5000.00 6,267	0.00	26750.00 33,531	0.00	31750.00	39798.62
	USR HV <15743 0001 > Remote I/0 Modules Structure	1.00 LS	N/A	00.00	0.00	3000.00 3,761	00.0	1605.00 2,012	0.00	4605.00	5772.37
	B MIL HV <02230 4500 > Pumping System Control Enclosure deep, 12" wide, cable, sand bedding	1.00 LS	COETR23	0.22	16.25 16	699.82 877	648.60	3745.00 4,694	0.00	5093.42 6,385	6384.60
	USR HV <15743 0001 > Plc Control Enclosure	1.00 LS	EELER18	0.02	181.32	5003.06 6,271	00.0	26750.00 33,531	0.00	31753.06	39802.46
	USR HV <15743 0001 > Administrative Computer	1.00 EA	EELER18	0.23	14.51	400.24	0.00	2140.00	0.00	2540.24	3184.20
	USR HV <15743 0001 > UPS Note: Use for comunication panel	2.00 EA	EELER18	0.91	3.62	100.01 251	0.00	535.00 1,341	0.00	635.01	795.98

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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30% Submittal 04. Pump Stations

TOTAL COST UNIT COST 3184.20 1592.10 4562.86 3184.20 2388.19 7960.49 4776.13 796.05 15920.98 7960.49 1592.10 796.05 795.98 527.80 464673.77 2540.24 3,184 1270.12 3640.09 6350.61 3810.24 4,776 1905.22 2,388 635.06 12701.22 15,921 6350.61 1270.12 635.06 635.01 796 421.06 1,056 464,674 2540.24 3,184 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0 0 10700.00 2140.00 2,682 1070.00 2140.00 2,682 2140.00 2,682 1605.00 2,012 5350.00 3210.00 4,024 535.00 5350.00 6,706 535.00 671 321.00 805 MATERIAL 1,341 3,353 386,413 1070.00 535.00 386,413 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 EQUIPMNT 00.0 0.00 1,161 1,161 LABOR 400.24 200.12 1500.09 400.24 502 300.22 1,254 600.24 752 100.06 2001.22 2,509 1000.61 200.12 251 100.06 627 100.01 100.06 251 77,100 77,100 1000.61 54.37 36.26 21.75 72.53 36.26 14.51 15 7.25 14.51 15 10.88 3.63 7.25 3.63 3.62 3.63 MANHRS 592 592 0.46 90.0 0.23 0.30 0.09 0.15 0.05 0.09 0.46 DUTPUT 0.23 0.91 0.91 0.91 0.91 QUANTY UOM CREW ID EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EELER18 EA 1.00 EA 1.00 EA 1.00 EA 2.00 EA 1.00 LS 1.00 EA EA 2.00 EA 1.00 MBH 1.00 EA 1.00 EA 1.00 EA 1.00 EA 5.00 EA 1.00 EA 1.00 1.00 USR HV <15743 0001 > CO-Axial Cable Signal Splitter > Administrative Report Printer USR HV <15743 0001 > Monochrome Duplex Multiplexer TOTAL Controls and Instrumentation USR HV <15743 0001 > Ethernet Switch Note: Use for communication panel UPS Note: Use for CCIV Security Equipment Cabinet USR HV <15743 0001 > LN100 Protocol Converter USR HV <15743 0001 > Motorola MCP IP Gateway USR HV <15743 0001 > 120V Quad Receptacles USR HV <15743 0001 > Internet Video Server USR HV <15743 0001 > 24 VDC Power Supply USR HV <15743 0001 > Motorola Moscad-L USR HV <15743 0001 > VHF Dataradio USR HV <15743 0001 > VHF Dataradio USR HV <15743 0001 > Control Rack TOTAL Controls USR HV <15743 0001 > 0001 HV <15743 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43Pl	QUANTY UOM CREW ID	1	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
			ł							
TOTAL HVAC	1.00 MBH			4,497	183,310	1,161	943,832	0	1,128,304	1128304
04.01.01.11. Electric Power And Lighting										
04.01.01.11.01. Service and Distribution										
04.01.01.11.01.03. Main Switchboards										
USR EL <16315 0011 > Main Switchboard	1.00 EA EEI	EELER19	0.05	48.64	2500.24	0.00	27820.00	0.00	30320.24	36023.48
MIL EL <16338 5560 > Safety switch, hvy dty, 600 amp, W/fuse, 600 volt, 3 pole NEMA 3R NOTE: Use for service disconnect switch	1.00 EA EEI	BELEELEC2	0.12	17.02	871.57 1,036	0.00	4307.19	0.00	5178.76 6,153	6152.89
USR EL <16512 0151 > Manual Transfer Switch 600 A	1.00 EA EEI	EELEELEC1	90.0	16.00	819.28	00.00	6767.75 8,041	0.00	7587.03	9014.15
MIL EL <16712 1070 > Conduit, direct burial, PVC sched 40, 4" dia, w/coupling	350.00 LF EEI	EELEELEC2	20.00	0.10	5.12	0.00	3.27	0.00	8.39	9.97
MIL EL <16119 5760 > Wire, 600 volt, 500 kcmil, copper type XLPE-USE(RHW), stranded	0.10 MLF EEI	EELEELEC3	90.0	50.00	2560.25	0.00	4986.20 592	0.00	7546.45 897	8965.94
MIL EL <16119 5600 > Wire, 600 volt, copper type XLPE-USE(RHW), stranded, 1/0	0.05 MLF EEI	EELEELEC2	0.08	24.24	1241.33	0.00	1198.40	0.00	2439.73	2898.65
MIL EL <16153 0200 > Cable termn to 600V, no stress cones, 500 kcmil, term lugs, handwrap	12.00 EA EEI	EELER19	5.00	0.50	25.70	0.00	12.84	0.00	38.54	45.79
MIL EL <16153 0140 > Cable termn to 600V, no stress cones, 1/0, term lugs, handwrapped	6.00 EA EEI	EELER19	16.67	0.15 1	7.71	0.00	2.89	0.00	10.60	12.59
TOTAL Main Switchboards	1.00 AMP		ł	130	7, 908	0	48,440	0	56,348	56347.93
04.01.01.11.01.04. Interior Distrib. Transformers										
USR EL <16315 0012 > Current Transformer	3.00 EA EEI	EELER19	2.50	1.00	51.41	0.00	470.80	0.00	522.21	620.43
MIL EL <16412 3500 > Dry type xfmr, 3 pn, 480 V pri 120/208 V sec, vent, 45 kVA NOTE: Use for 480 V - 120/240 V Transformer	2.00 EA EEL	EELEELEC2	0.10	20.00	1024.10	0.00	1477.24 3,510	0.00	2501.34 5,944	2971.84

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES;

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04. Pump Stations

4.13 4.13 TOTAL COST UNIT COST 27799.92 4614.94 1454.12 4614.94 86159.21 447.13 4614.94 23398.64 72518.49 86,159 52756.18 62,680 7,805 3884.30 22,152 1223.90 5,816 3884.30 26,305 376.34 8,048 3.47 3.47 3.47 3884.30 14,537 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 OTHER 21400.00 66340.00 78,819 48150.00 57,207 1.20 2022.30 711.85 2022,30 13,695 218.78 1.20 2022.30 MATERIAL 5,188 0.00 0.00 00.00 0.00 0.00 0.00 0.00 0.00 EQUIPMNT 0 0.00 0.00 00.0 LABOR 2.28 1862.00 512.05 2,433 2.28 1862.00 12,610 6178.49 4606.18 157.55 3,369 2.28 1862.00 6,969 2,617 36.36 36.36 36.36 115 43 38.88 0.04 10.00 0.04 89.61 3.08 0.04 MANHRS 120.19 120 90.0 90.0 TUGINO 90.0 22.50 90.0 0.10 0.02 0.03 0.33 22.50 22.50 5.70 MLF EELEELEC2 EELEELEC1 4.80 MLF EELEELEC2 EELEELEC1 400.00 LF EELEELEC1 3.15 MLF EELEELEC2 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER19 1.00 EA EELER19 EELER19 4.00 EA 1.00 AMP 4.00 EA 1600.00 LF 1.00 EA 18.00 EA 1050.00 LF USR EL <16315 0011 > Pump Engine Motor Control Center air, 3 p, 14000 A incm MIL EL <16412 2700 > Dry type xfmr, 3 pn, 480 V pri 120/208 V sec, vent, 6 kVA NOTE: Use for 5 kVA transformer copper, stranded, 4/0 NOTE: Engine mcc's power wiring Wire, 600 volt, type THWN-THHN, copper, stranded, 4/0 NOTE: Aux East MCC cable for MIL EL <16338 4510 > Safety switch, hvy dty, 30 amp, w/ fuse, 240 volt, 3 pole NEMA. 3R MIL EL <16119 2000 > Wire, 600 volt, type THWN-THHN, Conduit, direct burial, PVC sched 40, 2" dia, w/coupling NOIE: Conduit for power wiring MIL EL <16119 2000 > Wire, 600 volt, type THWN-THHN, Conduit, direct burial, PVC sched 40, 2" dia, w/coupling NOTE: Conduit for power wiring TOTAL Interior Distrib. Transformers Conduit, direct burial, PVC sched 40, 2" dia, w/coupling NOIE: Pump engine mcc's power USR EL <16315 0012 > Aux East Motor Control Center USR EL <16315 0013 > Aux West Motor Control Center copper, stranded, 4/0 NOTE: Aux West MCC cable for for pump engine mcc's 04.01.01.11.01.07. Motor Control Centers wiring conduit EL <16712 1050 > MIL EL <16712 1050 > <16119 2000 > MIL EL <16712 1050 > 04.01. Pump Station 1 - C43P1 EL MIL

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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30% Submittal 04. Pump Stations

8.57 191.16 87.17 OTHER TOTAL COST UNIT COST 349,487 349486.61 413,640 413639.53 181,603 181603.46 181,603 181603.46 595,243 595242.99 6530,30 101.16 444.56 157.36 7.21 181,603 5496.42 6,530 132.44 85.14 910 374.18 5,335 160.89 73.37 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 ! 0 0 417,409 3.21 80,853 4468.32 5,309 31.03 187.25 2,670 75.33 78.65 19.26 892 MATERIAL 80,853 336,556 282,928 0.00 EQUIPMNT 0 0 0.00 0.00 0 0 0 0.00 0.00 0.00 0.00 LABOR 4.00 100,751 1028.10 54.11 579 186.93 57.12 204 82.25 54.11 2,507 177,834 66,558 77,083 100,751 100,751 0.08 1,092 1,265 1,649 1,649 2,915 20.00 1.05 3.64 1.11 1.60 1.05 MANHRS 32,13 OUTPUT 0.13 2.38 0.69 2.25 1.56 2.38 21200 SF " EELER19 QUANTY UOM CREW ID EELER19 39.00 EA EELER19 EELER19 EELER19 EELER19 EELER19 1.00 EA 1.00 AMP 1.00 AMP 1.00 AMP EA 9.00 EA 12.00 EA 3.00 EA 1.00 EA 1.00 SF 20.00 EL <16822 0300 > Fire alarm & detection, 16 zone, transmitter w/directional MIL EL <16822 1300 > Fire alarm & detection, 15< rate-of-rise, thermal,136<-190< fixed temp Fire alarm & detection, alarm, light & horn Fire alarm & detection, pelec smoke, releasing unit 1200, MIL EL <16822 2000 > Fire alarm & detection, pull station, manual, std 04.01.01.12.01. Communication, Security & Alarm TOTAL Electric Power And Lighting TOTAL Lighting and Branch Wiring MIL EL <16822 1230 > Fire alarm & detection, ionization, air duct, std, TOTAL Service and Distribution B MIL EL <16622 5210 > Lighting/Power Allowance 04.01.01.11.02. Lighting and Branch Wiring 04.01.01.11.02.02. Lighting Equipment 04.01.01.12.01.01. Fire Alarm Systems TOTAL Motor Control Centers power wiring TOTAL Lighting Equipment detector 04.01.01.12. Electrical Systems MIL EL <16822 1110 > AF EL <16822 5300 > 04.01. Pump Station 1 - C43P1 ĄΕ

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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04. Pump Stations

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04.01. Pump Station 1	ion 1 - C43P1	QUANTY UOM CREW ID	TUGINO	MANHRS	LABOR	FOUTPMAT	MATERIAL.	OTHER	TOTAL COST INIT COST	TOOC STA
		• • • • • • • • • • • • • • • • • • •						- 1		
	USR EL <16822 1300 > Fire alarm & detection, 15<	39.00 EA EELER19	2.38	1.05	54.11	0.00	0.00	0.00	54.11	64.29
	USR EL <16121 0351 > Control Cable 2C - #14	2.64 MLF EELER19	0.36	7.00	359.98 1,129	0.00	445.12	0.00	805.10	956.54
	MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl Couplings only, steel rigid galy 2640.00 LF	2640.00 LF EELEELEC1	c1 15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16612 2000 > Emergency 1tg, (603) nickel-cadmium, battery, 6 V unit, 2 heads	3.00 EA EELER19	1.00	2.50	128.51 458	0.00	539.28	0.00	667.79	793.40
	TOTAL Fire Alarm Systems	1.00 OUT		385	23,504	0	19,156	0	42,659	42659.18
	04.01.01.12.01.07. Television Systems									
	MIL EL <16862 0150 > TV sys, CC, 12x zoom 15 mm - 180 mm lens, camera, general use NOTE: Use for interior camera	2.00 EA EELER19	0.31	8.00	411.24	0.00	1112.80	0.00	1524.04	1810.71
	MIL EL <16862 0340 > TV sys, CC,12x zoom 15-180 mm lens, adverse env, camera, general use NOTE: Use for exterior camera	4.00 EA EELER19	0.21	12.12	623.24 2,962	0.00	1294.70 6,153	0.00	1917.94 9,115	2278.71
	MIL EL <16862 7000 > TV sys, CC, 16 camera,2 monitor, microprocessor, matrix switcher/cont NOTE: Use for multiplexer/video switcher	1.00 BA EELER19	0.21	12.12	623.24 740	0.00	5466.63 6,495	0.00	6089.87 7,235	7235.38
	MIL EL <16862 2100 > TV sys, CC, head end egpt, video recorder W/rack mount	1.00 EA EELER19	2.00	1.25	64.26	0.00	832.46	0.00	896.72 1,065	1065.39
	MIL EL <16862 7000 > TV sys, CC, 16 camera,2 monitor, microprocessor, matrix switcher/cont NOTE: Use for internet video server/multiplexer	1.00 EA EELER19	0.21	12.12	623.24 740	0.00	5466.63 6,495	0.00	6089.87	7235.38
	MIL EL <16862 6040 > TV sys, CC, video monitor, 19"	1.00 EA EELER19	0.63	4.00	205.62	0.00	579.22 688	0.00	784.84	932.47
	RSM EL <16412 2310 > Dry type xfmr, 3 ph, 480 V pri 120/208 V sec, vent, 3 kVA NOTE: Use for 200 VA, 120 V - 24 V Transformer	6.00 EA EELEELECI	c1 0.13	8.00	409.64	0.00	482.78 3,442	0.00	892.42	1060.29

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

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04. Pump Stations

5.60 TOTAL COST UNIT COST 6600.63 2695.20 524.45 51934.34 1233.40 259.52 259.52 2307.62 3660.14 956.54 1139.59 2630.32 666.57 1038.13 3080.67 959.17 342 2213.89 561.04 667 2268.50 1,590 441.42 218.43 218.43 1942.28 2,308 805.10 191 6,582 51,934 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 149.80 5350.00 6,356 1.43 69.02 145 781.10 47.08 47.08 1685.25 2,002 1498.00 445.12 106 445.12 1057.16 MATERIAL 516.33 35,950 0.00 0.00 EQUIPMNT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 LABOR 411.24 3.28 1752.17 372.40 257.03 3,054 171.35 2,036 171.35 257.03 305 1582.67 514.05 183 1156.73 15,984 359.98 5.00 30.79 22.50 8.00 0.06 37.28 7.27 5.00 3,33 3,33 7.00 10.00 4.00 MANHRS 264 OUTPUT 0.63 15.63 0.13 0.14 0.50 0.75 0.75 0.50 0.08 0.36 0.25 0.11 0.31 1.77 MLF EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER19 EELER19 0.30 MLF EELER19 0.30 MLF EELER19 EELER19 EELER19 0.59 MLF EELER22 EELER19 EELER19 EELER19 0.20 MLF EELER19 1.00 OUT EA 10.00 EA EA 1.00 EA 1.00 EA 10.00 EA 4.00 EA 1176.00 LF 1.00 1.00 MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12 MIL EL <16117 4020 > Coaxial cable, 3/4" dia, trunk, dir burial, cu covered al core MIL EL <16839 0600 > Access control eqpt, local processor for card system NOTE: Use for Key Pad Security USR EL <16862 0011 > Camera Pan, Tilt, Zoom Cntrler MIL EL <16839 0940 > Access control eqpt, access, keypad for card reader MIL EL <16839 0750 > Access control eqpt, switch, 0750 > Access control eqpt, switch, MIL EL <16862 4230 > TV sys, CC, mount, housing, indoor, corner NOIE: Use for Video Server Cabinet tamper NOTE: Use for Limit Switch NOTE: Use for Key Switch USR EL <16121 0353 > Control Cable 14C - #14 USR EL <16121 0352 > Control Cable 4C - #14 Security Control Panel USR EL <16121 0351 > Control Cable 2C - #14 04.01.01.12.01.08. Security Systems TOTAL Television Systems USR EL <16839 0599 > MIL EL <16839 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW I	ID OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
USR EL <16121 0354 > Control Cable 16C - #14	0.20 MLF EELER19	9 0.11	23.00	1182.27	0.00	1251.90 297	0.00	2434.17 578	2892.03
USR EL <16121 0355 > Control Cable 18C - #14	0.20 MLF EELER19	9 0.11	23.50	1207.82 287	0.00	1446.64	00.00	2654.46	3153.77
USR EL <16121 0356 > Control Cable 20C - #14	0.03 MLF EELER19	9 0.10	23.99	1233.33	0.00	1836.12 65	00.00	3069.45	3646.81
USR EL <16121 0357 > Control Cable 24C - #14	0.05 MLF EELER19	9 0.10	25.00	1285.13 76	0.00	2169.96	0.00	3455.09 205	4104.99
USR EL <16121 0358 > Control Cable 26C - #14	0.13 MLF EELER19	60.0	27.00	1387.82	00.0	2503.80	0.00	3891.62	4623.64
MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv 1283.00 LF	1283.00 LF EBLEBLECT	EC1 15.63	0.06	3.28	0.00	1.43	0.00	4.71 7,181	5.60
IOTAL Security Systems	1.00 SYS		240	14,669	0	17,894	0	32,563	32563.10
TOTAL Communication, Security & Alarm	1.00 SF		890	54,156	0	73,000	0	127,157	127,157 127156.62
04.01.01.12.02. Special Electrical Systems			•						
04.01.01.12.02.01. Instuments & Controls									
USR EL <16617 0001 > Antenna Pole 120' Tall	1:00 EA EELER15	.5 0.07	85.71 86	4280.89	729.90 867	16050.00	0.00	21060.79 25,022	25022.32
TOTAL Instuments & Controls	1.00 EA		86	5,086	867	19,069	0	25,022	25022.32
TOTAL Special Electrical Systems	1.00 SF		86	5,086	867	19,069	0	25,022	25022.32
TOTAL Electrical Systems	1.00 SF		976	59,242	867	92,069	0	152,179	152178.94
04.01.01.13. Equipment									
04.01.13.01. Fixed and Moveable Equipment									
04.01.01.13.01.85. Bridge Crane									
B MIL AA <14660 0625 > Overhead bridge crane, 2 girder, 25 ton, 50' span	1.00 EA ESELM4	0.00	2368.42	88386.14 88,386	12664.08 12,664	481500.00 481,500	0.00	582550.22 582,550	582550.22
M MIL AA <05150 8210 > Bridge Crane Runway	41.00 TON SIWSE21	21 0.75	10.67	629.99 25,830	135.17 5,542	2140.00	00.00	2905.16 119,112	2905.16
								٠	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	JNIT COST
TOO COOK COOK AS A MALE			 		; ; ; ; ; ; ; ; ;				 	
USK AA <u2422 uuui=""> Railroad, new rail, 110 lb prime relay, ARA-A & AREA</u2422>	252.00 LF	CLABB13	162.50	0.04	0.99	0.62	24.08 6,067	0.00	25.69	25.69
TOTAL Bridge Crane	1.00 EA			2,817	114,465	18,363	575,307	0	708,135	708135.08
04.01.01.13.01.90. Stop Logs										
USR AA <05548 0611 > Stop Log	200.00 SF	SIWSE4	8,93	0.45	27.93	1.06	85.60 17,120	0.00	114.58 22,916	114.58
TOTAL Stop Logs	1.00 SF			06	5,585	211	17,120	0	22,916	22916.34
04.01.01.13.01.91. Elevator										
RSM AA <14211 0490 > Elevators, hydraulic passenger, 3000 lb cap, 3 stop, 150 FPM	1.00 EA	SSELELEV2	0.01	243.90	10439.63	0.00	44975.34	0.00	55414.98 55,415	55414.98
TOTAL Elevator	1.00 EA			244	10,440	0	44,975	0	55,415	55414.98
TOTAL Fixed and Moveable Equipment	1.00 SF		·	3,150	130, 490.	18,574	637,402	0	786,466	786466.39
TOTAL Equipment	1.00 SF			3,150	130,490	18,574	637,402	0	786,466	786466.39
TOTAL Pump Station 1					2,884,148	336,015	10896917	0	14,117,080	
04.01.02. Equipment										
04.01.02.01. Pumps										
B USR ME <15286 4621 > Drainage Pump, 500 cfs	2.00 EA	MPLUQ2	00.0	2000.00	77339.84	00:00	0:00 761840.00 0 1,810,284	0.00	839179.84 1,994,059	997029.57
USR ME <15286 4622 > Drainage Pump, 250 cfs	2.00 EA	MPLUQ2	00.00	1200.00	46403.90 110,265	0.00	0.00 465450.00 0 1,106,002	0.00	511853.90 1,216,267	608133.62
TOTAL Pumps				6,400	294,040	0	2,916,286	0	3,210,326	
04.01.02.02. Pump Engine										
USR ME <16513 3271 > Diesel Engine, 3600 hp, 900 rpm (Caterpillar 3612)	2.00 EA	EELER13	00.0	4,800	2400.00 121962.52 4,800 289,807	11549.64 27,444	549.64 1498000 27,444 3,559,548	0.00	1631512.16	1938400
USR ME <16513 3272 > Diesel Engine, 1800 np, 1800 rpm (Caterpillar 3516)	2.00 EA	EELER13	0.01	1200.00	60981.26 144,904	5774.82	5774.82 749000.00 13,722 1,779,774	0.00	815756.08 1,938,400 969199.80	969199.80

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 04. Pump Stations PROJECT C43RES:

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509209.18 1,209,983 604991.43 TOTAL COST UNIT COST 257279.59 611,348 305673.88 105.27 21471.17 18237.70 11245.26 23830.44 23931.87 39528.79 18071.85 64,413 9464.91 22,491 20142.97 47,864 15350.31 36,475 20057.60 47,661 33270.59 79,058 88.60 70,151 7,636,950 100,889 126,921 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 12614.23 29,974 29403.60 69,869 14884.77 7960.80 18,916 LABOR EQUIPMNT MATERIAL 3281.15 219350.00 7,797 521,219 6562.30 433350.00 15,593 1,029,726 0.00 17049.38 0 40,513 0.00 17049.38 0 40,513 83,028 59,429 110,382 64,556 6,890,607 00.00 0.00 0.00 0.00 0.00 0 0 34648.44 17.18 82 3187.08 2736.08 6,501 17,861 1504.11 3008.22 7,148 10,722 3093.59 7,351 3866.99 9,189 16,540 69296.89 164,663 681,788 681.82 1,364 1363.64 0.42 11,293 82.42 70.75 40.00 80.00 160 80.00 160 100.00 360 OUTPUT MANHRS 00.0 0.03 0.04 0.03 0.01 2.38 0.04 0.04 0.05 4.00 EA MPLUPLUM1 QUANTY UOM CREW ID 2.00 EA EELER13 EELER13 2.00 EA MPLUQ2 2.00 EA MPLUQ2 3.00 EA MPLUQ2 2.00 EA MPLUQ1 2.00 EA MPLUQ1 2.00 EA MPLUQ2 2.00 EA MIL ME <15197 5380 > Valves, steel, 1", forged, ball valve, 800 lb, threaded NOTE: Use for valve on engines USR ME <15286 4531 > Cooling Water Pump & Motor, 1050 gpm USR ME <15286 4519 > Cooling Water Pump & Motor 525 gpm USR ME <15286 2001 > Lube Water Pump, 80 gpm TOTAL Lubrication Water Pumps USR ME <16513 3273 > Reduction Gear 1800 hp USR ME <16513 3274 > Reduction Gear 3600 np du TOTAL Cooling Water Pumps du 09 40 04.01.02.04. Lubrication Water Pumps NOTE: Also Fresh Water Pumps USR ME <15286 2002 > Fresh Water Pump USR ME <15297 0011 > Vacuum Pumps, USR ME <15297 0012 > Vacuum Pumps, TOTAL Vacuum Pumps TOTAL Pump Engine 04.01.02.03. Cooling Water Pumps 04.01.02.05. Vacuum Pumps 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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04. Pump Stations

851.12 TOTAL COST UNIT COST 16660.86 99240.25 235,815 117907.34 12848.00 2819.35 2120.16 3799.50 9395.55 12734.93 57788.16 16748.81 16748.81 48639.14 115,576 14023.11 33,322 10718.73 14097.14 16,749 14097.14 33,498 2372.99 1784.50 3197.97 22,797 25,696 7908.05 716.37 384,713 10813.90 75,942 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0 0.00 12519.00 29,748 12519.00 29,748 46759.00 111,109 92555.00 12519.00 9630.00 22,883 1871.62 2,224 1101.03 2,616 2514.50 17,925 3540.84 8,414 9351.80 11,111 442.98 1,053 67,504 EQUIPMNT MATERIAL 360,786 0.00 904.44 2,149 0.00 0.00 0.00 307.44 307.44 1964.47 614.88 731 122.98 2,149 LABOR 4,468 5780.80 21,778 1578.14 1578.14 3,750 8,438 501.37 596 376.03 2,681 2402.73 752.06 150.41 1504.11 3,574 2,813 1880.14 1183.90 376.03 63.90 20.00 4.00 40.00 50.00 111.11 40.00 40.00 30.01 13.33 13 10.00 10.00 402 180 MANHRS 0.10 0.10 0.13 0.20 0.20 0.03 0.50 0.05 0.04 0.02 0.15 0.10 DUTPUT £ MPLUQ22 MPLU022 MPLU022 MPLUQ22 MPLUQ22 MP LUQ1 MPLU01 EELER3 MP LUQ3 MPLUQ3 MPLUQ3 QUANTY UOM CREW 2.00 EA 1.00 EA 2.00 EA 1.00 EA 2.00 EA 6.00 EA 2.00 EA 1.00 EA 2.00 EA 2.00 EA 2.00 EA 2.00 EA MIL ME <11225 0200 > Pressure filter, pretreat of raw wtr, sand, elec opn, 3'D, 36 GPM NOTE: Use for 10 gpm filter mdb USR ME <15290 0702 > Waste Lube/Fuel Oil Pump, 50 gpm MIL ME <16513 3200 > Generator set, dsl eng, xfr sw&fuel tank, 500 kW, incl btry, USR ME <15290 0801 > Lube Oil Receiving Pump, 25 gpm USR ME <11225 0002 > Reverse Osmosis Unit W/Booster TOTAL Waste Fuel & Engine Oil Equipt USR ME <15290 0701 > Waste Lube/FO Trans Pump, 25 USR ME <11225 0003 > Hydropneumatic Tank, 100 gal USR ME <15290 08003> Lube Oil Makeup Pump, 3 gpm USR ME <15290 0802 > Lube Oil Transfer Pump, 25 USR ME <11225 0004 > Ultra Violet Units, 14 gpm USR ME <11225 0001 > Water Softener, 10 gpm 04.01.02.08. Potable Water System Equipment 04.01.02.06. Waste Fuel & Engine Oil Equipt USR ME <15298 0011 > Well Pump 10 gpm chgr, muf NOIE: Cat 3412 TOTAL Lube Oil Pumps 04.01.02.07. Lube Oil Pumps 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

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04. Pump Stations

670294.58 796,377 796376.99 1268.25 25903.50 OTHER TOTAL COST UNIT COST 10689.88 43042.13 2436926 380.21 25661.51 3259207 8997.46 36227.70 86,084 21598.78 51,323 2051112.20 2,436,926 21802.46 25,904 320.02 760 1067.46 1,268 63,085 23,408 3,259,207 137,407 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 29403.60 69,869 0.00 8353.62 252.76 601 1016.50 6832.17 627020.00 8,117 744,962 1765500 0.00 17049.38 0 40,513 110,382 45092.30 1765500 53,574 2,097,591 65,781 2,842,553 MATERIAL 43,342 21,658 3442.16 0.00 8,613 0.00 0.00 0.00 0 EQUIPMNT Ó LABOR 643.84 1,530 67.26 50.96 6824.10 16,215 4549.40 36442.41 43,297 1,750 4000.00 240519.90 4,000 285,762 305.34 18360.30 305 21,814 11,130 350,873 27,026 606.06 606 30.00 3.20 2.42 176.47 117.65 4,911 249 69 588 OUTPUT MANHRS 0.03 00.0 0.02 0.01 0.01 0.10 0.63 0.83 QUANTY UOM CREW ID SIWSL5A SIWSL5A SIWSL5A 2.00 EA MSPFQ6 MSPFQ5 1.00 EA MSPFQ5 2.00 EA MPLUQ2 2.00 EA MPLUQ2 2.00 EA 1.00 EA 1.00 EA 1.00 LS 1.00 EA MIL ME <15726 6090 > Compressor, air, 53.78CFM, 15HP, 1209al, recip, 2stg, press lube, MIL ME <15727 1720 > Compressor accessories, 25 GFM, refra air dryer w/ambient air filter USR ME <05910 0001 > Trash Rake w/2 Trolley Grippers NOTE: Use for 55 cfm compressor TOTAL Potable Water System Equipment fdn/pmp/piping NOTE: Use for starting air receiver 275 gal MIL ME <13205 3040 > Tanks, stl, 275 gal, abv gnd, w/cradles, ctg, ftg, no NOTE: Use for particulate TOTAL Compressed Air System фų USR ME <15297 0012 > Vacuum Pump, 40 np USR ME <15297 0011 > Vacuum Pump, 60 USR ME <05910 0003 > Field Service TOTAL Vacuum Pumps USR ME <05910 0002 > 304L Screen 04.01.02.09. Compressed Air System TOTAL Trash Rake 04.01.02.10. Vacuum Pumps 04.01.02.20. Trash Rake 04.01. Pump Station 1 - C43P1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	NIT COST
04.01.02.21. Auxillary Bay Trash Screen									
USR ME <05910 0004 > Trash Screen	1.00 EA SIWSL5A	0.01	404.04	24294.94 28,865	4554.78 5,412	171200.00	0.00	200049.72	237679.07
TOTAL Auxillary Bay Trash Screen	1.00 EA		404	28,865	5,412	203,403	0	237,679	237679.07
TOTAL Equipment			25,485	1,470,810	146,511	13709359	0	15, 326, 680	
04.01.03. Trash Handling System Bridge									
04.01.03.01. End Bent									
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 Note: Includes intermediate bent	2.52 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	00.0	1241.93 3,130	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	13.00 CY N/A	0.00	00.0	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	13.00 CY CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	117.00 SF ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	311.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL End Bent			70	1,515	81	4,325	0	5, 921	
04.01.03.02. Intermediate Bent				-		,			
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	2.52 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93 3,130	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	33.00 CY N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	33.00 CY CLABC20	13.75	0.58	10.01	6.21	0.00	00.0	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	352.00 SF ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43Pl	QUANTY UOM CREW ID		OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	784.00 SF AC	ACARC2	54.38	0.11	2.08	0.00	0.81 638	0.00	2,272	2.90
TOTAL Intermediate Bent			i	138	2,769	205	7,242	0	10,216	
04.01.03.03. Approach Slabs										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	67.00 CY ULA	ULABC6	20.63	0.29	3,93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	300.00 SF AC	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	4.25 TON SIWRRODM4	ARRODM4	0.29	13.89	363.20	0.00	963.00	00.00	1326.20	1326.20
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	1200.00 SF AC	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	1200.00 SF AC	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	1200.00 SF AC	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	67.00 CY N/A	st.	0.00	0.00	0.00	0.00	126.26 8,459	0.00	126.26 8,459	126.26
TOTAL Approach Slabs			i	145	3,065	24	12,803	0	15,892	
04.01.03.04. Precast Concrete Piling										
MIL AA <02364 4000 > Piles, conc, square, precast, prestressed, 40' 109, 18" thick 1170.00 VLF CPIDB19A	1170.00 VLF CP	IDB19A	65.00	0.12	5.00	3.33	20.98	0.00	29.31 34,296	29.31
TOTAL Precast Concrete Piling			i	144	5,852	3,894	24,550	0	34,296	
04.01.03.05. Precast Concrete Bridge Deck										,
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	660.00 SF AC	ACARC1	43.75	0.09	1.65	00.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	4000.00 SF AC	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1		QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
					i 1 1 1 1 1 1] 		
MIL AA <03396 0010 > Finishing floors, m screed finish	monolithic,	4000.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev 10" thick, pumped	slabs, over	233.00 CY	CLABC20	22.50	0.36	6.12	3.80	00.0	0.00	9.91 2,309	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	, regular	233.00 CY	N/A	0.00	0.00	0.00	0.00	126.26 29,419	0.00	126.26.	126.26
M MIL AA <03217 0600 > Reinforcing in place, grade, #3 to #7	ce, stab on	12.82 TO	TON SIWRRODM4	0.29	13.89	363.20 4,656	0.00	963.00 12,346	0.00	1326.20	1326.20
TOTAL Precast Concrete Br	Bridge Deck		*		745	15,190	884	46,605	0	62,680	
04.01.03.06. Concrete Guardrail											
USR AA < > Concrete Guardrail		240.00 LF		00.00	0.00	15.00	0.00	53.50	00.00	68.50	68.50
TOTAL Concrete Guardrail					0	3,600	0	12,840	0	16,440	
04.01.03.07. Steel Guardrail											
USR AA <05523 0960 > Guard Rail (3 - Rail 1-1/2" Dia) NOTE: Use for wingwalls & structure guard rail	ail 1-1/2" Dia) gwalls & ail	180.00 LF	SIWSE4	17.39	0.23	14.33	0.54	28.89	0.00	43.76	43.76
TOTAL Steel Guardrail					41	2,580	16	5,200	0	7,878	
TOTAL Trash Handling System Bridge	tem Bridge				1,284	34,571	5, 185	113,565	0	153,321	
04.01.04. Siphon Break Structure											
04.01.04.01. Side Walls											
M MIL AA <03217 0700 > Reinforcing in plac to #7 Note: Includes into bent	ace, walls, #3 termediate	82.00 TO	82.00 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00 78,966	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix. weight, 4000 psi	x, regular	207.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 26,136	0.00	126.26 26,136	126.26
MIL AA <03398 0010 > Finishing walls, b. patch voids	break ties &	1824.00 SF	ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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04. Pump Stations

4.28 2.49 0.17 0.22 0.25 2.05 2.98 0.17 9.91 16.22 1326.20 126.26 TOTAL COST UNIT COST 0.17 9.91 16.22 3,357 2.90 165,116 2.498,392 1326.20 0.17 1,487 0,25 126.26 101,008 2.98 538,953 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0.00 0.00 0 0 0.00 0.00 0.00 126.26 0.00 EQUIPMNT MATERIAL 0.81 0.83 963.00 306,234 0.00 0.00 0.00 0.00 410,060 1.14 481 0.00 0.00 6.21 0.00 0.36 0.00 0 0.00 0.00 0.00 00.0 0.00 0.00 3.80 1,286 LABOR 10.01 2,072 2.08 3.93 1.65 363.20 115,496 0.17 0.22 0.25 0.00 0.17 6.12 1,487 1.83 49,352 128,606 2,286 309 0.01 5,183 0.10 0.01 0.36 0.58 0.11 13.89 4,417 0.01 0.01 00.0 MANHRS 88 OUTPUT 54.38 43.75 0.29 90.63 78.75 0.00 43.75 22.50 20.63 61.88 112.50 13.75 112.50 6912.00 SF ACMACEFIL ACMACEF11 318.00 TON SIWRRODM4 ACMACEF11 ACMACEF11 QUANTY UOM CREW ID CLABC20 ULABC6 ACARC2 ACARC1 ACARC1 ACARC2 N/A 11458 SF 3376.00 SF 6912.00 SF 6912.00 SF 800.00 CY 105.00 SF 420.00 SF 1224.00 SF 68.00 CY 207.00 CY 800.00 CY MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over $12^{\rm n}$, 4 use AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plave 15'-20' nigh 4 use MIL AA <03372 5100 > Placing conc, walls, 12" thick, AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Bottom Slab TOTAL Side Walls plywood 04.01.04.02. Bottom Slab 04.01.04.03. Top Slab 04.01. Pump Station 1 - C43P1 AF

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER 1	TOTAL COST UNIT COST	NIT COST
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	68.00 CY N/A	0.00	0.00	0.00	00.0	126.26	00.0	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	27.00 TON SIWRRODM4	0.29	13.89	363.20 9,806	0.00	963.00	0.00	1326.20 35,807	1326.20
TOTAL TOP Slab		•	460	11,377	258	35,109	0	46,744	
04.01.04.04. Manhole									
MIL AA <02752 4590 > Manhole cover & frame, CI, city type, 18" dia x 175 lb	4.00 EA CODLB6	1.00	3.00	66.83	16.25	117.09	0.00	200.17	200.17
USR AA <02752 0001 > Precast Concrete Riser	4.00 ЕА ООЕНВ22	0.51	7.41	174.70	63.53 254	326.11	0.00	564.35	564.35
TOTAL Manhole		· ·	42	996	319	1,773	0	3,058	
04.01.04.05. Guardrail									
USR AA <05523 0960 > Guard Rail (3 - Rail 1-1/2" Dia) NOTE: Use for wingwalls & structure guard rail	144.00 LF SIWSE4	17,39	0.23	14.33	0.54	28.89	0.00	43.76	43.76
TOTAL Guardrail			33	2,064	78	4,160	0	6,302	
04.01.04.06. Waterstop									
MIL AA <03198 1050 > Waterstop, PVC, dumbbell, 9" wide, 3/8" thick, center bulb	560.00 LF ACARCARP1	16.25	0.06	1.23	0.00	6.26	00.00	7.49	7,49
TOTAL Waterstop			34	691	0	3,505	0	4,196	
TOTAL Siphon Break Structure			8,039	193,056	2,228	569,085	0	764,369	
04.01.05. Saxophone Discharge				· /					
04.01.05.01. Excavation									
CIV AA <02228 0392 > Excavate, mdm soil, 3CY excavator	4846.00 CY CODEB12Y	288.50	0.01	0.39	0.31 1,506	0.00	0.00	0.70	0.70
TOTAL Excavation			20	1,868	1,506	0	0	3,374	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	TUTIO O	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	NIT COST
04.01.05.02. Cofferdam			i 		t t 1 1 1 1 1 1]]] } !
USR AA <02161 0001 > Steel Sheet Pile Cutoff	33600 SF CPIDB40	0 95.63	0.08	3.40	1.62 54,546	16.05	0.00	21.07 708,066	21.07
M RSM AA <03326 0100 > Concrete ready mix, regular weight, 2500 psi NOTE: Use for Tremie Concrete	1024.00 CY N/A	00.0	0.00	0.00	0.00	74.90 76,698	0.00	74.90 76,698	74.90
MIL AA <03372 4650 > Placing conc, slab on grade, over 6" thick, pumped NOTE: Use for Iremie Concrete	1024.00 CY CLABC20	0 23.13	0.35	5.95	3,69	0.00	0.00	9.64	9.64
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 NOTE: Use for I Wall	17.00 TON SIWRRODM4	DM4 0.38	10.67	278.93	0.00	963.00 16,371	0.00	1241.93 21,113	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi NOTE: Use for I Wall	438.00 CY N/A	0.00	0.00	0.00	0.00	126.26 55,302	0.00	126.26 55,302	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped NOTE: Use for I wall	438.00 CY CLABC20	0 13.75	0.58	10.01	6.21	0.00	0.00	16.22 7,104	16.22
MIL AA <03398 0010 > Finisning walls, break ties & patch voids NOTE: Use for I Wall	5632.00 SF ACMACEFI1	FI1 67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood NOTE: Use for I Wall	5632.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81 4,580	0.00	2.90 16,318	2.90
M RSM AA <03326 0100 > Concrete ready mix, regular weight, 2500 psi NOTE: Use for Thrust Block	300.00 CY N/A	0.00	0.00	0.00	0.00	74.90	0.00	74.90 22,470	74.90
MIL AA <03372 4650 > Placing conc, slab on grade, over 6" thick, pumped NOTE: Use for Thrust Block	300.00 CY CLABC20	0 23.13	0.35	5.95	3,69	0.00	0.00	9.64	9.64
TOTAL Cofferdam			4,411	144,610	62,156	714,881	0	921,647	
04.01.05.03. Backfilling									
USR AA <02270 0099 > Rip-rap, random, machine placed for slope protection	32.00 TON UOEHB12G	2G 66.08	0.03	1.50	0.63	27.29	0.00	29.41	29.41

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
MIL AA <02216 5520 > Backfill, strl, 6" lifts,			 	0.01	0.18	0.26	0.00	0.00	0.44	
W/dozer, no compaction, around foundation	3714.00 CY	CODTB11R	275.00	20	683	950	0	0	1,633	0.44
MIL AA <02220 9040 > Compaction, water, wagon, 6000 gal, 6 mile haul	3714.00 CY	COFWB59	200.00	0.01	0.19	0.33	0.21	0.00	0.73	0.73
AF AA <02220 5810 > Compaction, steel wheel tandem roller, 10 ton	3714.00 CY	COFCB10Y	337.50	0.00	0.15	0.09	0.00	0.00	0.24	0.24
TOTAL Backfilling				56	1,983	2,509	1,668	0	6,160	
TOTAL Saxophone Discharge				4,518	148,460	66,171	716,549	0	931,181	
04.01.06. Equipment Building										
MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use	32.00 LF	ACARC1	75.00	0.05	0.96	0.00	0.51	0.00	1.48	1.48
MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.04 TON	I SIWRRODM4	0.29	13.89	363.20	00.00	727.60	0.00	1090.80	1090.80
M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi	1.00 CY	N/A	00.00	00.00	0.00	0.00	126.26	00.00	126.26	126.26
MIL AA <03372 4400 > Placing conc, slab on grade, 6" thick, w/crane & bucket	1.00 CY	ULABC7	13.75	0.58	10.01	7.94	0.00	0.00	17.95	17.95
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	64.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	00.0	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	64.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	64.00 SF	ACMACEF11	84.38	0.01	0.23	00.00	0.00	0.00	0.23	0.23
MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building	1.00 CY	CODFB10N	47.50	0.03	1.07	0.77	16.26 16	0.00	18.10	18.10
USR AA <03450 0001 > Precast Concrete Building 8'x8' Note: Material price from Concrete Modular Systems 727-945-9756 AITN: Fredrick Kennedy	1.00 EA	SIWSE7A	90.0	130.08	7180.22	1676.22	15573.85	00.0	24430.29 24,430	24430.29

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
TOTAL Equipment Building	1.00 JB		135	7,276	1,685	15,762	0	24,723	24723.12
04.01.07. Sheet Pile Retaining Wall									
USR AA <02161 0001 > Steel Sheet Pile	104840 SF CPIDB40	95.63	0.08	3.40	1.62	1.62 16.05 170,197 1,682,682	0.00	21.07	21.07
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 NOTE: Use for Anchore Wall	16.00 TON SIWRRODM4	0.38	10.67	278.93 4,463	00.0	963.00 15,408	0.00	1241.93 19,871	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi NOTE: Use for Anchor Wall	744.00 CY N/A	00.0	0.00	0.00	00.0	126.26 93,937	0.00	126.26 93,937	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped NOTE: Use for Anchor wall	744.00 CY CLABC20	13.75	0.58	10.01	6.21 4,621	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids NOTE: Use for Anchor Wall	10044 SF ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood NOTE: Use for I Wall	10044 SF ACARC2	54.38	1,108	2.08	0.00	0.81 8,168	00.0	2.90	2.90
MIL AA <02161 2550 > Sheet piling, stl, connections & struts, 2/3 salvage, wales Note: Use for Threaded Rod & C 12 x 25 Wale	55.00 TON ACARE4	0.15	40.00	1195,15	675.86 37,172	199.91 10,995	0.00	2070.92	2070.92
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi NOIE: Use for Concrete cap	299.00 CY N/A	0.00	00.0	0.00	0.00	126.26 37,752	0.00	126.26 37,752	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped NOTE: Use for concrete cap	299.00 CY CLABC20	13.75	0.58	10.01 2,993	6.21	0.00	0.00	16.22	16.22
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 NOTE: Use for concrete cap	7.00 TON SIWRRODM4	0.38	10.67	278.93 1,953	0.00	963.00 6,741	0.00	1241.93 8,694	1241.93
MIL AA <03398 0010 > Finisning walls, break ties & patch voids NOTE: Use for concrete cap	8073.00 SF ACMACEFI1	67.50	0.01	0.29	00.0	0.03	0.00	0.32	0.32

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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2.90 27.54 12.93 1.93 49.24 20101.69 20101.69 TOTAL COST UNIT COST 47.52 1034.55 39.07 2640.04 2612907 20101.69 23,391 27.54 12.93 17,319 20,102 13.83 1.93 47.52 49.24 1034.55 39.07 391 2640.04 31,680 184,773 2,612,907 0.00 0.00 0.00 0.00 OTHER 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.81 0.00 9630.00 6.42 1.38 14,136 42.80 34.97 350 2140.00 25,680 14.61 9,630 42.80 21,700 535.00 MATERIAL 215,109 1,882,386 144,878 4176.92 0.00 0.47 4.02 0.15 1.78 2.60 0.00 0.00 EQUIPMNT 0.47 00.0 14,843 4,177 12.46 16,689 12.46 16,689 6294.77 6,295 2.08 16,826 3.39 0.41 2.94 499.55 500 500.04 LABOR 6,295 3.84 515,413 25,052 14,629 0.11 0.20 0.20 222.22 0.02 0.14 0.33 13.30 0.17 27.25 222 MANHRS 82 20.00 0.01 0.15 71.88 0.04 15.00 OUTPUT 20.00 54.38 54.38 150.00 78.75 APTRPORD1 COFGB11L COFGB36C 507.00 TON COKCB25B ΩI 1584.00 TON COKCB25 ACARC2 SIWSE4 SIWSE4 ULABA2 ULABB2 MPLU01 QUANTY UOM CREW 1339.00 LF 1.00 LS 1.00 LS 8073.00 SF 12.00 EA 1339.00 LF 2287.00 CY 10241 SY 10.00 EA J.B 1.00 JB 92167 SF 1.00 CIV AA <02841 1100 > Parking barriers, 8" x 13" x 6'-0", wheel stops, precast conc MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built RSM AA <05523 0010 > Railing, pipe, aluminum, 2 rail, satin finish, 1.25" dia USR AA <05523 0010 > Railing, pipe, aluminum, 2 rail, USR AA <15176 1010 > Storm Sewer Ditch Bottom Inlets Type C & S CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene plywood NOTE: Use for concrete cap nighway, Structural Course TOTAL Sheet Pile Retaining Wall M RSM AA <02505 0850 > Aspnaltic conc pavement, highway, Friction Course USR AA <02226 4101 > Earth Work Final Grading M RSM AA <02505 0810 > Asphaltic conc pavement, TOTAL Earthwork Final Grading USR AA <02532 2001 > Pavement Markings M MIL AA <02244 1510 > Shell Rock Base w/dowels TOTAL Pavement 04.01.08. Earthwork Final Grading 04.01.09. Pavement 04.01. Pump Station 1 - C43P1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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04. Pump Stations

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04.01. Pump Station 1 - C43P1	QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
04.01.10. Concrete Paved Ditch		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 			; ;			
M RSM AA <03326 0100 > Concrete ready mix, regular weight, 2500 psi NOTE: Use for Tremie Concrete	85.00 CY	N/A	00.0	0.00	0.00	00.0	74.90	0.00	74.90	74.90
MIL AA <03372 4650 > Placing conc, slab on grade, over 6" thick, pumped NOTE: Use for Tremie Concrete	85.00 CY	CLABC20	23.13	0.35	5,95	3.69	0.00	00.00	9.64	9.64
TOTAL Concrete Paved Ditch	85.00 CY		•	29	206	314	6,367	0	7,186	84.54
04.01.11. Channel Excavation										
USR AA <02228 0371 > Excavate, wet soil	240430 CY	CODEB12C	256.50	0.01	0.39	0.29	0.00	0.00	0.68 162,651	89.0
TOTAL Channel Excavation	240430 CY			1,875	92,878	69,773	0	0	162, 651	0.68
04.01.12. Septic Tank & Drain Field										
MIL AA <02709 2130 > Piping, subdrainage, perforated PVC, 10" dia	1000.00 LF	CLABB14	35.00	0.17	2.97	0.46	5.01	0.00	8.45	8.45
MIL AA <02780 0200 > Septic tanks, no exc or piping, precast, 5,000 gal	1.00 EA	CLABB13	0.44	15.98 16	366.57	231,46	5280.91	0.00	5878.94	5878.94
TOTAL Septic Tank & Drain Field	1.00 EA			187	3,341	969	10,289	0	14,326	14325.54
04.01.13. Storm Sewer Piping		,								•
MIL AA <02762 2030 > Piping, drainage & sewage, 15" dia, RCP, class 3, no gaskets	139.00 LF	CLABB14	16.25	0.37	6.41	1.00	13.03	0.00	20.44	20.44
MIL AA <02762 2030 > Piping, drainage & sewage, 18" dia, RCP, class 3, no gaskets	296.00 LF	CLABB14	16.25	0.37	6.41 1,896	1.00	13.03	0.00	20.44	20.44
MIL AA <02762 2040 > Piping, drainage & sewage, 24" dia, RCP, class 3, no gaskets	272.00 LF	CLABB14	12.50	0.48	8.33	1.30	19.05 5,181	0.00	28.68 7,800	28.68
TOTAL Storm Sewer Piping	1.00 EA		•	291	5,052	789	10,850	0	16,691	16690.83
TOTAL Pump Station 1 - C43P1	1.00 EA			147,884 5	5,386,859	863,495	28085635	0	34,335,990	34335990

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
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04.02. Pump Station 4 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 5 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 5 - C4394 04.02.01. Pump Station 4 - C4394 04.02.01. Pump Station 5 - C4394 04.02. O1. O. Sheet Plints At C4294 05.02. O1. O1. Sheet Plints At C4294 06.02. O1. O1. O1. Sheet Plints At C4294 06.02. O1. O1. O1. Sheet Plints At C4294 06.02. O1. O1. O1. O1. Sheet Plints At C4294 06.02. O1. O1. O1. O1. O1. O1. Sheet Plints At C4294 06.02. O1. O1. O1. O1. O1. O1. O1. O1. O1. O1											
C43P4		QUANTY UOM	CREW ID	1 1	MANHRS	!	SQUIPMNT	MATERIAL	1	TOTAL COST (NIT COST
Denodation Conditions Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Sheet Pile Shool ON SF CPIDB40 Sheet Pile Shool ON SF CPIDB40 Sheet Pile Shool ON ST CPIDB40 Sheet Pile Shool ON ST CPIDB40 Sheet Pile Shool ON ST CPIDB40 Sheet Pile Shool ON ST CPIDB40 Sheet Pile Shool ON ST CPIDB40 Shool ON ST CPIDB40 Shool ON Shoo	04.02. Pump Station 4 - C43P4									 	• • • • •
Second Connections Second	04.02.01. Pump Station 4 - C43P4										
Connections & Colored SF CPIDB40 95.63 552 22,440 11,62 16.05 0.00 21.07 21.07 21.07 22.00 22.040 10,714 105,930 0.00 239,084 2 2 2 2 2 2 2 2 2	04.02.01.01. Substructure										
Connections & Connections	04.02.01.01.02. Special Foundation Conditions										
connections & institutions 1.00 SF Condition 3.40 1.02 1.00 0.00 21.07 21.07 20.00 21.07 21.07 20.00 21.07 20.00 21.07 20.00 21.07 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 35.00 142.77 23.4 99.97 0.00 42.80 0.00 35.00 142.77 11.00 20.00 142.77	04.02.01.01.02.04. Dewatering										
connections & number of this wales 17.00 TON ACARF4 0.15 680 20,317 11,490 3,398 0.00 2070.92 20.7 9e, wales will nist, first inst, wales 17.00 TON ACARF4 0.15 680 20,317 11,490 3,398 0.00 142.77 35.06 20,317 11,490 3,398 0.00 142.77 35.06 142.77 35.06 142.77 35.00 142.77 35.00 142.77 35.00 142.77 35.00 16,684 66.74 66.75 16,684 16,684 16,684 16,684 16,684 16,684 16,684 16,684 16,684 16,684 16,684 </td <td>USR AA <02161 0001 > Steel Sheet Pile</td> <td>6600.00 SF</td> <td>CPIDB40</td> <td>95.63</td> <td>0.08</td> <td>3.40</td> <td>1.62</td> <td>16.05</td> <td>0.00</td> <td>21.07 139,084</td> <td>21.07</td>	USR AA <02161 0001 > Steel Sheet Pile	6600.00 SF	CPIDB40	95.63	0.08	3.40	1.62	16.05	0.00	21.07 139,084	21.07
instl, first let, 8" dia locational location			ACARF4	0.15	40.00	1195.15	675.86	199.91	0.00	2070.92 35,206	2070.92
longition and long SF	instl, der, 8"	250.00 LF	UOELEQLT4	1.71	2.34	99.97	00.0	42.80	0.00	142.77	142.77
Conditions 1.00 SF 2,053 77,747 22,204 126,716 0 226,667 22666	भरे करे		UOELEQLT4	4.27	0.94	39.99	0.00	26.75	0.00	66.74 16,684	66.74
Conditions 1.00 SF 2,053 77,747 22,204 126,716 0 226,667 22666 226667 22666	TOTAL Dewatering	1.00 SF		I	2,053	77,747	22,204	126,716	0	226,667	26666.8
Foundation 4000.00 CY CODEB12C 256.50 31 1,545 1,161 0 0 0.00 0.00 2,706 2,706 attion 1.00 CY 31 1,545 1,161 0 0 2,706 270 2,706 270 attion 1.00 CY 31 1,545 1,161 0 0 2,706 270 2,706 270 attion 1.00 CY 31 1,545 1,161 0 0 2,706 270 2,706 270 attion 1.00 SF 2,084 79,292 23,365 126,716 0 229,373 229373 229373		1.00 SF		ŀ	2,053	77,747	22,204	126,716	0	226,667	26666.8
Foundation 4000.00 CY CODEB12C 256.50 31 1,545 1,161 0 0.00 0.00 0.00 2,706 and tion 1.00 CY 31 1,545 1,161 0 0 2,706 2706 and tion 1.00 CY 31 1,545 1,161 0 0 2,706 2706 and tion 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	04.02.01.01.04. Foundation Excavation										
4000.00 CY CODEB12C 256.50 31 1,545 1,161 0 0.00 0.00 0.06											
1.00 CY 31 1,545 1,161 0 0 2,706 1.00 CY 31 1,545 1,161 0 0 2,706 2,084 79,292 23,365 126,716 0 229,373 22	USR AA <02228 0371 > Excavate, wet soil	4000.00 CY	CODEB12C	256.50	0.01	0.39	0.29	0.00	00.0	0.68	0.68
1.00 CY 31 1,545 1,161 0 0 2,706	TOTAL Excavation for Foundation	1.00 CY			31	1,545	1,161	0	0	2,706	2706.00
1.00 SF 2,084 79,292 23,365 126,716 0	TOTAL Foundation Excavation	1.00 CY		1	31	1,545	1,161	0	0	2,706	2706.00
	TOTAL Substructure	1.00 SF		I	2,084	79, 292	23,365	126,716	0	229,373	29372.8

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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4.71 3.49 OTHER TOTAL COST UNIT COST 171.48 1371.83 1371.83 1371.83 9035.52 1844.04 431.19 100.43 10879.56 171.48 3.49 1,372 1,372 1,372 4.71 9,036 9,036 1,844 10,880 431,19 100.43 0.00 0.00 0.00 0.00 0.00 0 0 0 0 0 0 112.35 2.27 79.05 158 LABOR EQUIPMNT MATERIAL 899 899 899 4,355 1.54 5,169 404.46 2,427 814 2.15 17 17 0.00 0 0.00 0 0 0.00 0.00 56.98 456 2.44 4,680 1.95 1,030 5,711 26.73 160 21.38 456 456 456 0.13 0.10 1.07 0.91 1.33 OUTPUT MANHRS 53 302 4.38 1.88 46.25 1.50 50.00 6.00 EA ACARCARP2 2.00 EA ACARCARP2 QUANTY UOM CREW ID 1920.00 SF AMABD9 8.00 LF SIWSE4 528.00 SF AMABD8 1.00 VLF 1.00 FLT 1.00 SF 1.00 SF 1.00 SF 1.00 SF MIL AA <08109 1160 > Com1 stl dr, fl.pair 3'x7'-0", full pnl hol core,18 ga, 1.75" I MIL AA <05511 0020 > Stair, stl,grating trd & pipe r, 3'-6" W, saf nosing, stl strg Note: Use for control building MIL AA <04234 0450 > CMU, back-up, 12" x 8" x 16", no scaf/reinf, 2000 psi MIL AA <04234 0350 > CMU, back-up, 8" x 8" x 16", no scaf/reinf, 2000 psi MIL AA <08116 2940 > Steel frames KD, 3'-0" W, single, 16 ga, 4.75" D, 7'-0" high 04.02.01.02.03.01. Interior Stair Structure TOTAL Interior Stair Structure 04.02.01.03.03. Exterior Personnel Doors TOTAL Stair Construction 04.02.01.03.01.01. Exterior Skin 04.02.01.03.01.03. Interior Skin 04.02.01.02.03. Stair Construction 04.02.01.03.03.02. Solid Doors TOTAL Exterior Walls TOTAL Superstructure TOTAL Exterior Skin TOTAL Interior Skin 04.02.01.03.01. Exterior Walls 04.02.01.03. Exterior Closure 04.02.01.02. Superstructure 04.02. Pump Station 4 - C43P4

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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34. Pump Stations

OTHER TOTAL COST UNIT COST 122.13 179.85 113.54 140.54 49.25 7004.19 7004.19 732.23 17883.75 26.08 45274.71 477.70 1433.09 122.13 244 113.54 1,022 179.85 140.54 843 49.25 732.23 732 7,004 26.08 45,275 1,433 7,004 45,275 1,433 17,884 0.00 0.00 0 0.00 0.00 0.00 0.00 0 0 0.00 0.00 0 0 95.40 113.54 159.80 959 113.82 LABOR EQUIPMNT MATERIAL 12.58 554.04 554 16.05 27,863 423.87 1,272 1,272 6,069 6,069 11,238 27,863 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 26.73 20.05 26.73 36.67 178.19 0.00 10.03 17,412 6,646 53.83 935 935 161 1.33 1.33 1.00 2.00 8.89 OUTPUT MANHRS 0.00 0.42 3.20 48 48 10 1.50 0.00 1.00 0.75 0.50 0.23 2.38 1.25 2.00 EA ACARCARP2 6.00 EA ACARCARP1 1.00 EA ACARCARP2 ACARCARP1 6.00 EA APTRPORD1 1736.00 SF ARFTROTS1 QUANTY UOM CREW ID 3.00 EA ALABG3 9.00 PR N/A 6.00 EA 1.00 EA 1.00 EA 1.00 SF 1.00 SF 1.00 SF MIL AA <08361 2650 > Overhead coml, no frame, manual, 10' x 10' H, steel, 24 ga MIL AA <08715 8540 > Lockset, std duty, entr series, cyl, w/sect trim, brass base, US26D MIL AA <09924 0320 > Int. painting, wood door & HM frame, natural finish door, ptd 04.02.01.04.01.05. Roofing Openings & Supports MIL AA <08713 1795 > Hinge, half mortise, US4, nigh freq, brass base, 4.5" x 4.5" MIL AA <07726 0500 > Roof natches, 2'-6" x 3', al curb & cover, w/curb, 1" fbgls MIL AA <08728 8000 > Door closer, traditional, std duty, parrallel arm, primed, surf mtd MIL AA <08116 2960 > Steel frames KD, 6'-0" W, double, 16 ga, 4.75" D, 7'-0" TOTAL Roofing Openings & Supports USR AA <07324 0051 > Precast 10" Hollowcore Roof Panels TOTAL Exterior Personnel Doors 04.02.01.04.01.01. Roof Coverings TOTAL Exterior Closure TOTAL Roof Coverings TOTAL Solid Doors 04.02.01.04.01. Roofing 04.02.01.04. Roofing 04.02. Pump Station 4 - C43P4

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES;

04. Pump Stations

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2.91 2143.15 2143.15 431.19 100.43 113.54 179.85 140.54 49.25 TOTAL COST UNIT COST 124,34 1460,51 48168.31 48168.31 431.19 100.43 201 179.85 360 140.54 281 49.25 2,143 2.91 1,461 48,168 113.54 341 2,143 48,168 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0 0 OTHER 1.68 404.46 79.05 158 159.80 320 113.82 12.58 25 115.72 926 1,195 113.54 341 1,880 EQUIPMNT MATERIAL 30,329 30,329 1,880 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.00 0 0 0 0 Ó 20.05 26.73 LABOR 26.73 21.38 36.67 1.23 0.00 263 263 266 17,839 17,839 1.33 0.06 0.00 1.00 2.00 0.40 1.33 1.07 13 12 751 751 13 OUTPUT MANHRS 2.50 1.50 1.88 0.00 1.00 0.75 0.50 17.50 2.00 EA ACARCARP2 ACARCARP2 160.00 LF MSHMSHEE1 2.00 EA ACARCARP1 2.00 EA ACARCARP1 2.00 EA APTRPORD1 8.00 EA MSHMSHEE1 QUANTY UOM CREW ID 3.00 PR N/A 2.00 EA 1.00 SF 1.00 SF 1.00 EA 1.00 EA 1.00 LF MIL AA <08109 1160 > Coml stl dr, fl.pair 3'x7'-0", full pnl hol core,18 ga, 1.75" I MIL AA <09924 0320 > Int. painting, wood door & HM frame, natural finish door, ptd MIL AA <08715 8540 > Lockset, std duty, entr series, cyl, w/sect trim, brass base, US26D MIL AA <08713 1795 > Hinge, half mortise, US4, high freq, brass base, 4.5" x 4.5" Door closer, traditional, std duty, parrallel arm, primed, surf mtd MIL AA <08116 2940 > Steel frames KD, 3'-0" W, single, 16 ga, 4.75" D, 7'-0" MIL AA <07621 0400 > Downspouts, aluminum 3" x 4", .024" thick, enameled MIL AA <07725 0500 > Roof drains, scupper, sst, tapered, 4" to 8" x 8" x 5" 04.02.01.05.02.01. Standard Interior Doors 04.02.01.04.01.06. Gutters and Downspouts TOTAL Interior Personnel Doors TOTAL Standard Interior Doors TOTAL Gutters and Downspouts 04.02.01.05.02. Interior Personnel Doors 04.02.01.05. Interior Construction TOTAL Roofing TOTAL Roofing < 0008 MIL AA <08728 04.02. Pump Station 4 - C43P4

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Atmy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.02.01.05.04 interior Specialties 04.02.01.05.04 interior Specialties 04.02.01.05.04 interior Specialties UNIA A COSSII 0020 State, state content building 1.00 EA 1.00	04.02. Pump Station 4 - C43P4	QUANTY UOM CREW ID	OUTPUT MAN	MANHRS	LABOR EQ	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
Politic Description Politic Description	04.02.01.05.04. Interior Specialties		1		-			1 1 1 1 1 1 1	• • • • • • • • • • • • • • • • • • •	
Water State Landers	04.02.01.05.04.01. Guard Rails Tollet Partitions									
1.00 EA 1.00	USR AA <05523 0960 > Guard Rail (3 - Rail 1-1/2" Dia) NOTE: Use control building			67	14.33 4,185	0.54	28.89	0.00	43.76	43.76
200 Stairs & Ladders Stair	TOTAL Guard Rails	1.00 EA	•	67	4,185	158	8,436	0	12,779	12779.29
020 > Stair, stl,grating trd & pipe r, Note that the control building and all the control building control building and all the control building control bui	04.02.01.05.04.03. Stairs & Ladders									
Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for control building Note: Use for main pump station Note: Use for main Note: Use for main pump station Note: Use for main station Note: Use for main pump station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for main station Note: Use for	MIL AA <05511 0020 > Stair, stl,grating trd & pipe r, 3'-6" W, saf nosing, stl strg Note: Use for control building			15	56.98	2.15	112.35	0.00	171.48	171.48
10.0 Stair, stl,grating trd & pipe r. 2.0 E SIWSE4 4.38 0.91 56.98 2.15 112.35 0.00 171.48 1.00 1.0	USR AA <05511 0021 > Spiral Stairs 3'-6" N, saf nosing, stl strg Note: Use for control building			.62	38.55 385	1.46	224.70	0.	264.70 2,647	264.70
100 Ladder, steel, 20" wide, bolted 42.00 VLF SIWSE4 6.25 27 1,675 63 2,442 0.00 99.53 100 Ladder, steel, 20" wide, bolted 45.00 VLF SIWSE4 10.63 17 1,656 40 1,217 0.00 2,312 100 Ladder, steel, 20" wide, bolted 45.00 VLF SIWSE4 10.63 17 1,656 40 1,217 0.00 2,312 100 SF 1.00 1.0	MIL AA <05511 0020 > Stair, stl,grating trd & pipe r, 3'-6" W, saf nosing, stl strg Note: Use for main pump station			.91	56.98 5,356	2.15	112.35 10,561	0.00	171.48 16,119	171.48
100 Eadder, steel, 20" wide, bolted 45.00 VLF SIWSE4 10.63 17 1,056 40 1,217 0 0 2,312 0 1.00 1.00 0 0 0 0 0 0 0 0 0				. 64	39.88 1,675	1.51	58.14	0.00	99.53	99.53
TOTAL Interior Specialties 1.00 SF 1.00		45.00 VLF SIWSE4		1.38	23.46 1,056	0.89	27.04	0.00	51.39	51.39
TOTAL Interior Specialties 1.00 SF 218 13.569 513 26,700 0 40,782	TOTAL Stairs & Ladders		! ! !	151	9,384	355	18,264	0	28,003	28002.56
1.00 SF 231 13,832 513 28,580 0 0 42,925 1.00 LS MSPFQ5 0.01 247 6,506 0 16,149 0 22,654 1.00 MCF 247 6,506 0 16,149 0 22,654	TOTAL Interior Specialties			218	13,569	513	26,700	0	40,782	40781.86
1.00 LS MSPFQ5 0.01 246.91 5190.07 0.00 12882.80 0.00 18072.87 0.01 246.91 5190.07 0.00 12882.80 0.00 18072.87 0.01 246.91 5190.07 0.00 12882.80 0.00 18072.87 0.01 246.91 5190.07 0.00 12882.80 0.00 22,654 0.00 18072.87 0.00 18072.87 0.00 12882.80 0.00 0.00 18072.87 0.00 12882.80 0.00 0.00 0.00 0.00 0.00 0.00 0.	TOTAL Interior Construction	1.00 SF		231	13,832	513	28,580	0	42,925	42925.00
Air Distribution, Cooling and 1.00 LS MSPFQ5 0.01 246.91 5190.07 0.00 12882.80 0.00 18072.87 1.00 LS MSPFQ5 0.01 247 6,506 0 16,149 0 22,654 0.05 LS MSPFQ5	04.02.01.09. HVAC									
ing Distribution, Cooling and 1.00 LS MSPFQ5 0.01 246.91 5190.07 0.00 12882.80 0.00 18072.87 0.554 0.01 246.91 5190.07 0.00 12882.80 0.00 18072.87 0.554 0.00 16,149 0 22,654 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	04.02.01.09.04. Distribution Systems									
1.00 LS MSPFQ5 0.01 246.91 5190.07 0.00 12882.80 0.00 18072.87 0.550 0 16,149 0 22,654 0 15tribution, Cooling and 1.00 MCF 247 6,506 0 16,149 0 22,654	04.02.01.09.04.01. Air Distribution, Cooling and Heating									
Cooling and 1.00 MCF 247 6,506 0 16,149 0 22,654	USR HV <15708 2311 > HVAC				190.07 6,506		12882.80 16,149	0.00	18072.87	22654.34
		1.00 MCF		247	6, 506	0	16,149	0	22,654	22654.34

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.02. Pump Station 4 - C43P4	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
TOTAL Distribution Systems	1.00 MBH		247	6,506	0	16,149	0	22,654	22654.34
04.02.01.09.06. Controls and Instrumentation									
04.02.01.09.06.90. Controls									
USR HV <15743 0001 > PV 1500	1.00 EA N/A	0.00	0.00	1600.00	0.00	8560.00	0.00	10160.00	12735.56
USR HV <15743 0001 > Ethernet Switch Note: Use for PLC & SCADA System Network	1.00 EA N/A	00.00	0.00	100.00	0.00	535.00	0.00	635.00 796	795.97
USR HV <15743 0001 > Logix Plc	1.00 EA N/A	00.00	0.00	2000.00	00.00	10700.00 13,412	0.00	12700.00 15,919	15919.45
USR HV <15743 0001 > Telemetry TO/From Pumpstation Structure	1.00 LS N/A	00.00	0.00	100.00 125	0.00	535.00 671	0.00	635.00	795.97
USR HV <15743 0001 > 24 VDC Power Supply Structure	1.00 LS N/A	00.00	0.00	300.00	0.00	1605.00	0.00	1905.00	2387.92
USR HV <15743 0001 > UHF Dataradio	1.60 EA EELER18	0.30	10.88	300.22	00.00	1605.00	0.00	1905.22	2388.19
USR HV <15743 0001 > Motorola Moscad-L	1.00 EA EELER18	0.09	36.26 36	1000.61	0.00	5350.00	0.00	6350.61	7960.49
USR HV <15743 0001 > Motorola MCP IP Gateway	1.00 EA EELER18	0.15	21.75	600.24 752	0.00	3210.00 4,024	0.00	3810.24	4776.13
TOTAL CONTROLS	1.00 EA		69	7,522	0	40,237	0	47,760	47759.68
TOTAL Controls and Instrumentation	1.00 MBH		69	7,522	0	40,237	0	47,760	47759.68
TOTAL HVAC	1.00 MBH		316	14,028	0	56,386	0	70,414	70414.03
04.02.01.11. Electrical									
04.02.01.11.01. Service and Distribution									
04.02.01.11.01.9X. Service And Distribution									
USR EL <16611 0051 > Electrical	1.00 LS	00.00	0.00	0.00	0.00	0.00	0.00 165700.00 0 196,868	165700.00 196,868 196868.17	196868.
TOTAL Service And Distribution		,	i °					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.02. Pump Station 4 - C43P4	OH MAGO MOH VENERAL	Y THOUSE	o dilik kw	;	- 1				
		- 1	MINHKS	LABOR	ECOLFMNI	MAIEKIAL	OTHER	TOTAL COST UNIT COST	NIT COST
		;	i	, , , ,		c.			
TOTAL Service and Distribution	1.00 AMP	٠	0	0	0	0	196,868	196,868 1	196868.17
TOTAL Electrical	1.00 AMP	ł	0	0	0	0	196,868	196,868 1	196868.17
TOTAL Pump Station 4 - C43P4		ł	3,740	132,093	23,895	254,147	196,868	607,004	
04.02.02. Equipment									
04.02.02.01. Barrel Pump & Motor									
B USR ME <15286 4621 > Barrel Pump & Motor 22,440 gpm, 300 hp	3.00 EA MPLUQ2	0.00	1764.71 (5,294	68241.04 243,232	0.00 41	410563.28 1,463,371	0.00	478804.32 1,706,602 5	568867.41
TOTAL Barrel Pump & Motor	3.00 3A	i	5,294	243,232	0 1,	1,463,371	0	1,706,602.5	568867.41
TOTAL Equipment		1	5,294	243,232	0 1,	1,463,371	0	1,706,602	
04.02.04. Intake Structure									
04.02.04.01. Footing									
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 Note: Includes intermediate bent	82.00 TON SIWRRODM4	0.38	10.67	278.93 22,873	0.00	963.00	00.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	207.00 CY N/A	00.00	0.00	0.00	0.00	126.26 26,136	0.00	126.26 26,136	126.26
MIL AA <03398 0010 > Finisning walls, break ties & patch voids	1824.00 SF ACMACEFIL	67.50	0.01	0.29	00.00	0.03	0.00	0.32	0.32
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	207.00 CY CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	207.00 CY ULABC6	20.63	0.29	3.93 813	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOC, edge forms, wood, over 12", 4 use	640.00 SF ACARC1	43.75	0.09	1.65	0.00	0.83 534	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7	16.50 TON SIWRRODM4	0.29	13.89	363.20 5,993	0.00	963.00	0.00	1326.20 21,882	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	207.00 CY N/A	0.00	0.00	0.00	0.00	126.26 26,136	0.00	126.26 26,136	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	1872.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0 0	0.17	0.17
LABOR ID: C43RES EQUIP ID: C43RES	Currency in DOLLARS					CREW	CREW ID: NAT01A	A UPB ID: UP01EA	PO1EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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04. Pump Stations

0.22 0.25 2.90 2.49 0.17 0.22 0.25 16.22 0.32 126.26 TOTAL COST UNIT COST 216,802 216801.74 1326.20 126.26 0.22 2.90 2.498,392 1326.20 421,730 0.25 126.26 101,008 1241.93 23,348 126.26 29,671 0.25 463 1,198 1,487 3,812 0.17 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 00.0 0.00 00.0 00.00 0.00 0.03 0.81 0.83 963.00 306,234 0.00 126.26 101,008 963.00 18,104 126.26 29,671 EQUIPMNT MATERIAL 00.0 00.0 00.0 157,037 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.21 1,360 LABOR 23,881 278.93 5,244 10.01 0.25 1.65 363.20 115,496 0.25 0.22 58,404 1,487 0.01 0.01 0.01 0.01 0.11 2,695 00.0 10.67 0.00 0.58 4,417 0.01 88 0.01 62 MANHRS DUTPUT 20.63 90.63 78.75 43.75 0.29 78.75 0.00 0.38 00.0 13.75 54.38 112,50 90.63 67.50 ACMACEF11 ACMACEF11 ACMACEF11 18.80 TON SIWRRODM4 ACMACEF11 ACMACEF11 318.00 TON SIWRRODM4 QUANTY UOM CREW ID ACARC1 N/A 6912.00 SF 304.00 SF 1872.00 SF 1872.00 SF 11458 SF 800.00 CY 3376.00 SF 6912,00 SF 800.00 CY 235.00 CY 235.00 CY 6912.00 SF 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <03396 0010 > Finishing floors, monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish M MIL AA <03217 0700 > Reinforcing in place, walls, to ${\pm}7$ MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular 04.02.04.02. Abutments, Piers, Backwall screed finish plywood TOTAL Footing 04.02. Pump Station 4 - C43P4

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43Res: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.02. Pump Station 4 - C43P4	QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	NIT COST
	 				; ; ; ; ;					
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	5280.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90 15,298	2.90
TOTAL Abutments, Piers, Backwall	1.00 EA			6,107	147,295	1,747	462,139	0	611,180	611179.68
04.02.04.03. Intake Noses										
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	10.00 CY	(N/A	00.00	00.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	10.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	00.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	207.00 SF	. ACARC2	54.38	0.11	2.08	00.0	0.81	0.00	2.90	2.90
IOTAL Intake Noses	1.00 EA	-	'	29	532	62	1,431	0	2,025	2024.55
04.02.04.04. Keyway										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	1.00 TON	N SIWRRODM4	0.38	10.67	278.93	0.00	963.00	00.0	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	12.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	12.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	304.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Keyway	1.00 EA		•	51	1,033	75	2,725	0	3,832	3832.50
TOTAL Intake Structure			,	8,882	207,263	3,243	623,332	0	833,838	
04.02.05. Pump House/ Discharge Structure										
04.02.05.01. Wall Footings										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	118.00 CY	ULABC6	20.63	0.29	3.93 463	0.36	0.00	0.00	4.28	4.28

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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04.02. Pump Station 4 - C43P4	QUANTY UOM CREW	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
								1		
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	1062.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	9.50 TON SIWRRODM4	SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	118.00 CY	N/A	0.00	0.00	00.0	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	708.00 SF 1	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	708.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	00.0	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	708.00 SF 2	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Wall Footings			'	286	6,117	42	24,934	0	31,093	
04.02.05.02. Foundation Wall										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	68.00 CY U	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	2124.00 SF 2	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7	5.50 TON SIWRRODM4	SIWRRODM4	0.29	13.89	363.20 1,998	0.00	963.00	00.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	68.00 CY 1	N/A	00.00	0.00	0.00	0.00	126.26 8,586	0.00	126.26	126.26
TOTAL Foundation Wall			ı	290	5,771	24	15,655	0	21,451	
04.02.05.03. Slabs										
MIL AA <03372 4600 > Placing conc, stab on grade, over 6" thick, direct chute	50.00 CY 1	ULABC6	20.63	0.29	3.93 196	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	2715.00 SF #	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	33.40 TON SIWRRODM4	SIWRRODM4	0.29	13.89	363.20 12,131	0.00	963.00 32,164	0.00	1326.20	1326.20

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

TIME 09:25:13

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0.17 0.22 0.25 49.36 3.14 0.32 3.42 TOTAL COST UNIT COST 126.26 30.38 1241.93 126.26 1241.93 126.26 126.26 6,313 0.22 0.25 1,187 60,621 1241.93 9,935 49.36 2,468 126.26 6,313 3.148,428 1241.93 10,805 126.26 13,762 30.38 0.32 3.42 831 27,144 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 126.26 6,313 0.00 963.00 0.00 LABOR EQUIPMNT MATERIAL 0.00 126.26 6,313 0.57 963.00 126.26 13,762 0.00 0.03 1.02 40,743 15,541 0.00 0.00 0.00 0.00 0.00 0.00 0.00 21.84 0.00 0.00 13.44 0.00 00.0 18 1,092 0.00 0.17 0.25 27.52 1,376 0.00 1,032 278.93 2.57 6,904 278.93 831 19,860 10,511 0.00 16.94 0.29 2.40 0.00 0.01 0.01 1.60 0.00 OUTPUT MANHRS 0.01 10.67 0.14 10.67 0.00 107 0.13 883 548 0.01 00.0 00.0 0.38 5.00 28.13 0.38 0.00 8.13 67.50 112.50 90.63 78.75 47.13 ACMACEF11 4796.00 SF ACMACEFI1 ACMACEF 11 8.00 TON SIWRRODM4 8.70 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID 2688.00 SF ACARC1 ULABC7 ACARC2 N/A N/A N/A 50.00 CY 4796.00 SF 4796.00 SF 50.00 CY 109.00 CY 50.00 CY 109.00 CY 3294.00 SF 444.00 SF MIL AA <03372 0450 > Placing conc, columns, square/round, 12" thick, w/crane M MIL AA <03217 0700 > Reinforcing in place, walls, #3 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders MIL AA <03398 0010 > Finishing walls, break ties & patch voids 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, MIL AA <03396 0150 > Finishing floors, monolithic, broom finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket MIL AA <03142 5650 > Forms in place, columns, plywood, $12" \times 12"$, 4 use float finish & bucket TOTAL Columns TOTAL Slabs 04.02.05.04. Columns 04.02.05.05. Beams MIL AA <03396 04.02. Pump Station 4 - C43P4

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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132	04.02. Pump Station 4 - C43P4	QUANTY UOM	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
grade, 156.00 CY ULABCG 20.63											
State 156.00 CY ULABC6 20.63 0.29 3.93 0.36 0.00 0.00 0.00 0.00 0.00	TOTAL Beams				626	12, 323	1,465	25,503	0	39,290	
Golds forms 156.00 CY ULABC6 20.63 3.93 3.93 0.36 0.00 0.00 4.28 Golds forms 4248.00 SF ACARCI 43.75 0.03 1.65 0.00 3,445 0.00 2.49 slab on lithic, out of thick 12.50 TON SIMPRODM4 0.29 13.89 4,540 0.00 12,650 0.00 1326.26 0.00 156.50 sqular 156.00 CY N/A 0.00 0.00 0.00 0.00 12,650 0.00 12,650 olithic, out of thick 60.00 SF ACMACEFII 112.50 0.01 0.00 0.0	04.02.05.06. Chamber Walls										
State Stat	on	156.00 CY		20.63	0.29	3.93	0.36	00.0	0.00	4.28	•
slab on 12.50 TON SIWRRODM4 0.29 13.89 363.20 0.00 963.00 0.00 1326.20 15.57 132 egular 156.00 CY N/A 0.00 0.00 0.00 12.038 0.00 12.038 0.00 12.038 0.00 12.038 0.00 12.038 0.00 12.038 0.00 12.038 0.00 12.038 0.00 12.038 0.10 12.038 0.10 12.038 0.10 0.10 0.10 0.10 0.10 0.10 0.10 0.1	<03170 3060 > Forms in place, wood, over 12",		ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	z, (
### 156.00 CY N/A	ce, slab	12.50 TON		0.29	13.89	363.20	0.00	963.00	00.00	1326.20	64.7
Second State Seco		156.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.20
Dlithic, 60.00 SF ACMACEFII 90.63 0.01 0.22 0.00 0.00 0.00 0.02 0.22 0.00 0.00 0.00 0.02 0.22 0.00 0.00 0.00 0.02 0.23 0.00 0.00			ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	2 6
Jithic, 60.00 SF ACMACEFII 78.75			ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	
grade, chute 156.00 CY ULABC6 20.63 0.29 3.93 0.36 0.00 0.00 4.28 conversely stab on 12.50 Tow SIWRRODM4 0.29 17.540 0.00 0.00 0.00 126.26 0.00 0.00 1326.20 0.00 0.00 12.638 0.00 0.00 12.638 0.00 0.00 12.638 0.00 12.638 0.00 1326.20 0.00 12.638 0.00 12.638 0.00 12.638 0.00 1326.20 0.00 12.638 0.00 12.638 0.00 13.69.70 132 0.00 0.00 0.00 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 12.638 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			ACMACEF11	78.75	0.01	0.25	0.00	0.00	00.0	0.25	77. 6
grade, chute 156.00 CY ULABC6 20.63 45 612 56 0.00 0.00 4.28 668 sdge forms, 4248.00 SF ACARC1 43.75 388 7,014 0.00 0.00 963.00 0.00 1326.20 10,559 slab on 12.50 TON SIWRRODM4 0.29 174 4,540 0.00 0.00 126.26 0.00 126.26 10,577 132 slab on 12.50 CX N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	TOTAL Chamber Walls			i.	609	12,204	95	35,279	0	47,540	3
grade, chute 156.00 CY ULABC6 20.63 3.93 0.36 0.00 0.00 4.28 sdge forms, chute 156.00 CY ACARCI 43.75 388 7,014 0.00 0.83 0.00 2.49 stab on 12.50 TON SIMPRODM4 0.29 174 4,540 0.00 963.00 0.00 1326.20 squtar 156.00 CY N/A 0.00 0.00 0.00 12,038 0.00 126.26 hithic, 60.00 SF ACMACEFII 112.50 1 0.01 0.01 0.00 0.00 0.00 hithic, 60.00 SF ACMACEFII 112.50 0.01 0.01 0.00 0.00 0.00 0.00 1ithic, 60.00 SF ACMACEFII 0.01 0.01 0.00 0.00 0.00 0.00 0.00 1ithic, 60.00 SF ACMACEFII 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1ithic,	04.02.05.08. Approach Slab										
stab on 12.50 TON SIWRRODM4 0.29 1.65 0.00 0.83 0.00 2.49 10.559 stab on 12.50 TON SIWRRODM4 0.29 1.74 4,540 0.00 12.038 0.00 1326.20 15.59 13.89 363.20 0.00 963.00 0.00 1326.20 13.89 363.20 0.00 12.038 0.00 1326.20 13.89 363.20 0.00 12.038 0.00 1326.20 13.89 363.20 0.00 0.00 0.00 12.6.26 0.00 12.6.26 0.00 12.6.26 0.00 12.6.26 0.00 12.6.26 0.00 12.6.26 0.00 12.6.20 0.00 0.00 0.00 0.00 0.17 12.6.26 0.00 0.00 0.00 0.00 0.17 12.6.26 0.00 0.00 0.00 0.00 0.17 12.6.26 0.00 0.00 0.00 0.00 0.17 12.6.26 0.00 0.00 0.00 0.00 0.17 12.6.26 0.00 0.00 0.00 0.00 0.00 0.17 12.6.20 0.00 0.00 0.00 0.00 0.00 0.00 0.0	on Ct	156.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	
stab on 12.50 TON SIWRRODM4 0.29 174 4,540 0.00 963.00 0.00 1326.20 1326.20 14,540 0.00 12,038 0.00 16,577 132 132 156.00 CY N/A 0.00 0.00 0.00 126.26 0.00 126.26 0.00 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 126.26 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12			ACARC1	43.75	388	1.65	00.00	0.83	0.00	2.49	8 6
regular 156.00 CY N/A 0.00 0.00 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 0.00 0.00 0.17 0.00 0.00 0.00 0.17 0.00 0.00				0.29	13.89	363.20	0.00	963.00	0.00	1326.20	75.7
monolithic, 60.00 SF ACMACEFII 0.01 0.17 0.00 0.00 0.00 0.17 monolithic, 60.00 SF ACMACEFII 90.63 1 13 0			N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.20
monolithic, 60.00 SF ACMACEFI1 90.63 1 13 0 0 0 0 13	MIL AA <03396 0010 > Finishing floors, monolithic, screed finish		ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	21.0
	MIL AA <03396 0100 > Finishing floors, monolithic, float finish	60.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
04. Pump Stations

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MIL AM < 03379 6 1050 Principaling Giorer, monolithic control of the control of	04.02. Pump Station 4 - C43P4	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
Column C		SF	78.75	0.01	0.25	0.00	00.0	0.00	0.25	0,25
03170 3060 Parameterize, the place, SGG, eage forms, and the place, SGG, eage forms, and the place, SGG, eage forms, and the place, SGG, eage forms, and the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place, stab on a concrete ready mix, regular by the place by the plac	on	CY	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
Concrete ready max. regular Conc	SOG, 4 use	SF	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
03326 0100 > Concrete ready mix, regular strength contributed by the strength contribu	Reinforcing in place, slab grade, #3 to #7		0.29	13.89	363.20	0.00	963.00 193	0.00	1326.20	1326.20
Column C		CY	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
Column C	Finishing floors, screed finish	SF	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
TOTAL Approach Slab	Finishing floors, float finish	R.	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
COTAL Approach Slab	Finishing floors, broom finish		78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
1380 150	TOTAL Approach Slab			622	12,458	59	36,637	0	49,153	
Column C	04.02.05.09. Intake Slab									
Compact Finishing floors, monolithic, float finish floors, monolithic, float finish floors, monolithic, float finish floors, monolithic, float finish floors, monolithic, screed finish screed finish screed finish screed finish screed finish screed finish floors, monolithic, float finish floors, monolithic, float finish screed finish screen finish screen finish screed finish screen finish sc	MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	SP	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
<pre><03396 0010 > Finishing floors, monolithic, screed finish</pre>	<03396 0100 > Finishing floors, float finish	SF	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
<pre><03326 0300 > Concrete ready mix, regular weight, 4000 psi weight, 4000 psi weight, 4000 psi weight, 4000 psi weight, 4000 psi solution place, slab on grade, #3 to #7 <03217 0600 > Ranforcing in place, slab on grade, #3 to #7 <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute TOTAL Intake Slab</pre> <pre></pre>		SF	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
<pre><03217 0600 > Reinforcing in place, slab on grade, #3 to #7 <03372 4600 > Placing conc, slab on grade,</pre>	RSM AA <03326 0300 > Concrete ready mix, weight, 4000 psi	CY	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
on grade, ct chute 55.00 CY ULABC6 20.63 16 216 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<03217 0600 > Reinforcing in place, grade, #3 to #7		0.29	13.89	363.20 1,598	0.00	963.00	0.00	1326.20	1326.20
122 2,692 20 11,182 0	on		20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
	TOTAL Intake Slab		•	122	2,692	20	11,182	0	13,893	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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04. Pump Stations

16.22 2.90 4.28 0.17 0.22 0.25 TOTAL COST UNIT COST 1241.93 126.26 126.26 1326.20 126.26 16.22 2.90 2.49 126.26 505 0.17 0.22 0.25 3,442 294,668 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 126.26 0.81 0.00 LABOR EQUIPMNT MATERIAL 963.00 00.0 2,406 0.83 963.00 289 126.26 505 0.00 0.00 0.00 208,692 0.00 0.00 6.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00 89 2,846 10.01 110 1.65 0.00 2.08 0.22 0.25 0.00 0.17 13 967 363.20 109 228 83,130 10.67 00.0 0.11 0.29 0.00 0.58 0.09 OUTPUT MANHRS 48 13.89 0.01 0.01 4,046 0.01 11 13.75 0.38 0.00 43.75 0.29 90.63 78.75 54.38 20.63 0.00 112.50 0.80 TON SIWRRODM4 0.30 TON SIWRRODM4 ACMACEF11 108.00 SF ACMACEFI1 ACMACEF11 QUANTY UOM CREW ID CLABC20 ACARC2 4.00 CY ULABC6 ACARC1 4.00 CY N/A 11.00 CY 304.00 SF 21.00 SF 11.00 CY 108.00 SF 108.00 SF MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood MIL AA <03170 3060 > Forms in place, 80G, edge forms, wood, over 12", 4 use M MIL AA <03217 0700 > Reinforcing in place, walls, #3 MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped TOTAL Pump House/ Discharge Structure M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Discharge Chamber Keyway 04.02.05.10. Discharge Chamber Keyway TOTAL Equipment Pads 04.02.05.11. Equipment Pads 04.02. Pump Station 4 - C43P4

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
04. Pump Stations

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2.49 0.22 0.25 4.28 0.17 177,376 6,400,469 1,141,717 30937291 196,868 38,676,345 38676345 OTHER TOTAL COST UNIT COST 1326.20 126.26 823206.27 823,206 823206.27 4.28 2.49 1326.20 27,585 0.17 0.22 0.25 126.26 32,828 4,340,355 75,037 823,206 0.00 196,868 0 0.00 0.00 0.00 0.00 0.00 0.00 0.83 963.00 126.26 32,828 29,492 1,013,610 278,221 2,851,656 MATERIAL 0.00 0.00 0.00 57,340 6666.67 330287.67 248144.33 244774.27 6,667 330,288 248,144 244,774 248,144 244,774 0.00 0.00 0.00 EQUIPMNT 0.00 0.00 0.00 93 LABOR 6,667 330,288 3.93 1.658,866 363.20 00.0 0.17 0.22 0.25 17,604 0.09 13.89 00.0 0.01 0.01 0.01 864 OUTPUT MANHRS 0.00 20.63 43.75 0.29 0.00 78.75 112.50 90,63 255.00 SF ACMACEF11 255.00 SF ACMACEFI1 20.80 TON SIWRRODM4 ACMACEF 11 1.00 JB CODEB12C QUANTY UOM CREW ID 5370.00 SF ACARC1 N/A 260.00 CY 260.00 CY 255.00 SF 1.00 EA MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use M MIL AA <03217 0660 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Pump Station 4 - C43P4 TOTAL Retaining Walls TOTAL Pump Stations USR AA <02228 0001 > Site Work TOTAL Sitework 04.02.06. Retaining Walls 04.02.10. Sitework 04.02. Pump Station 4 - C43P4

CREW ID: NATOlA UPB ID: UPO1EA

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05. Main Outlet Structure 05.01. Gate Sl					LABOR				TOTAL COST ONLY COST	
			, , , , , , , , ,							
05.01.01. Excavation TOTAL Excavation	1.00 JB			0	0	0	0	0	0	00.00
05.01.02. Sheet Piling										
USR IF <02161 0001 > Steel Sheet Pile Cutoff	368.00 SF	CPIDB40	95.63	0.08	3.40	1.62	16.05	0.00	21.07	25.73
TOTAL Sheet Piling	1.00 EA		1	31	1,527	729	7,211	0	9,467	9467.32
05.01.03. Concrete										
05.01.03.01. Conduits										
05.01.03.01.10. Typical Conduit										
05.01.03.01.10.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	270.10 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use 6	665.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, $\sharp 3$ to $\sharp 7$	13.16 TON	SIWRRODM4	0.29	13.89	363.20 4,780	0.00	963.00 12,673	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 2	270.00 CY	N/A	0.00	0.00	0.00	00.0	126.26	0.00	126.26 34,090	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish 31	3120.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish 31	3120.00 SF	ACMACEF11	90.63	0.01	0.22 671	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish 31	3120.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		ı	424	8,922		47,318	0	56, 337	56337.15

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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DETAIL PAGE

05. Main Outlet Structure

4.28 2.49 2.98 0.17 TOTAL COST UNIT COST 2.05 9.91 16.22 1326.20 126.26 3143.73 126.26 1326.20 68129.86 1241.93 126.26 4.28 2.49 126.26 9.91 126.26 35,732 1326.20 18,288 9,439 3,144 2.05 2.98 126.26 16.22 2,530 0.17 68,130 541 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,572 0.83 963.00 674 126.26 1.14 963.00 13,280 963.00 0.00 LABOR EQUIPMNT MATERIAL 00.0 0.00 126.26 35,732 126.26 52,869 0.00 0.00 0.00 0.00 0.00 3.80 00.0 00.0 0.00 1,074 0.00 0.00 6.21 1.65 14,186 0.00 0.00 1.65 1.83 6.12 363.20 278.93 2,120 363.20 254 567 0.00 10.01 541 0.29 0.09 13.89 0.00 0.10 0.09 OUTPUT MANHRS 0.01 0.36 13.89 10.67 0.58 28 0.00 689 0.00 20.63 43.75 0.29 00.0 43.75 0.00 112.50 22.50 0.29 0.00 13.75 61.88 0.38 0.70 TON SIWRRODM4 ACMACEF 11 13.79 TON SIWRRODM4 7.60 TON SIWRRODM4 QUANTY UOM CREW ID 283.00 CY CLABC20 CLABC20 ULABC6 156.00 SF ACARC1 722.00 SF ACARC1 ACARC2 14.00 CY N/A N/A N/A 14.00 CY 3120.00 SF 283.00 CY 3120.00 SF 156.00 CY 156.00 CY 1.00 EA 1.00 EA MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" hign, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plywd 15'-20' nigh 4 use M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped MIL AA <03372 5100 > Placing conc, walls, 12" thick, M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 05.01.03.01.10.02. Center Haunch screed finish TOTAL Center Haunch 05.01.03.01.10.03. Top Slab 05.01.03.01.10.04. Walls TOTAL Top Slab padund ΑF ΑF 05.01. Gate S1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A

UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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DETAIL PAGE

50% Submittal
05. Main Outlet Structure

2.90 4.28 0.25 2.05 2.98 0.17 0.17 0.22 176,906 176905.92 OTHER TOTAL COST UNIT COST 49295.18 1326.20 126.26 19275.90 4.28 2.49 1326.20 5,345 0.17 0.32 2.90 126.26 12,626 0.22 0.25 2.98 49,295 0.17 19,276 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0.00 0.00 0.00 1.14 0.00 0.83 0.40 0.81 963.00 3,881 126.26 12,626 0.00 00.0 EQUIPMNT MATERIAL 31,746 134,506 16,681 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,145 0.00 0.00 696 LABOR 345 0.29 2.08 363.20 0.25 1.65 1.83 0.17 40,255 00.0 0.17 97 0.22 2,559 16,580 0.01 0.01 0.01 0.11 0.09 0.00 0.09 0.10 853 1,993 13.89 0 0.01 0.01 122 OUTPUT MANHRS 90.63 20.63 0.29 00.0 43.75 61.88 67.50 54.38 43.75 112.50 78.75 112.50 562.00 SF ACMACEFIL 809.00 SF ACMACEFI1 3744.00 SF ACMACEFI1 4.03 TON SIWRRODM4 ACMACEF11 ACMACEF11 QUANTY UOM CREW ID 5670.00 SF ACARC2 ULABC6 ACARC1 398,00 SF ACARC1 100.00 CY N/A 562.00 SF 100.00 CY 209.00 SF 562.00 SF 540.00 SF 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nigh, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nigh 4 use MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish monolithic, MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, screed finish 05.01.03.01.15. Conduit at Gatewell TOTAL Typical Conduit 05.01.03.01.15.01. Base Slab 05.01.03.01.15.02. Top Slab TOTAL Base Slab TOTAL Walls ΑF 05.01. Gate S1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

05.01. Gate S1

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure PROJECT C43RES:

TIME 09:25:13

DETAIL PAGE

2.90 9.91 126.26 16.22 0.32 TOTAL COST UNIT COST 1326.20 19208.99 1241.93 126.26 24571.89 63056.78 239,963 239962.70 1241.93 126.26 1326.20 5,345 24,572 9.91 126.26 10,480 1241.93 126.26 12,500 63,057 126.26 9,596 19,209 16.22 0.32 2.90 | 0 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0.00 126.26 10,480 963.00 15,136 963.00 126.26 12,500 0.03 963.00 4,131 126.26 9,596 EQUIPMNT MATERIAL 0.00 0.81 18,343 50, 161 184,667 6.21 3.80 0.00 0.00 0.00 0.00 0.00 0.00 0.00 315 0.00 615 996 3, 111 LABOR 6.12 0.00 0.00 363.20 3,758 278.93 0.00 10.01 0.29 2.08 5,614 11,930 52,185 278.93 1,197 13.89 56 0.00 0.00 MANHRS 0.00 10.67 0.58 0.01 14 0.11 2,579 10.67 46 282 586 22.50 0.00 0.29 0.38 0.00 13.75 67.50 00.0 TUTIO 54.38 0.38 4.03 TON SIWRRODM4 4.82 TON SIWRRODM4 ACMACEF11 4.29 TON SIWRRODM4 QUANTY UOM CREW ID 83.00 CY CLABC20 CLABC20 1440.00 SF ACARC2 N/A N/A 83.00 CY 99.00 CY 960.00 SF 99.00 CY 1.00 EA 76.00 CY 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped MIL AA <03398 0010 > Finisning walls, break ties & patch voids on M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps1 M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 05.01.03.02.10.01. Walls (I to Flow) TOTAL Conduit at Gatewell 05.01.03.01.15.03. Walls TOTAL Top Slab TOTAL Conduits 05.01.03.02.10. Gatewell TOTAL Walls 05.01.03.02. Gatewell ΑF

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 94

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05.01. Gate Sl	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	COST UNIT COST
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	76.00 CY	CLABC20	13.75	0.58	10.01	6.21	00.0	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	1372.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	, 2192.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90 6,351	2.90
TOTAL Walls (I to Flow)	1.00 EA		•	352	6,922	472	15,554	0	22,948	22947.70
05.01.03.02.10.02. Walls (II to Flow)										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	2.63 TON	N SIWRRODM4	0.38	10.67	278.93 734	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	47.00 CY	N/A	00.00	0.00	00.0	0.00	126.26	00.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	47.00 CY	CLABC20	13.75	0.58	10.01 470	6.21 292	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	1120.00 SF	ACMACEF11	67.50	0.01	0.29	00.0	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	, 1680.00 SF	ACARC2	54.38	0.11	2.08 3,501	0.00	0.81	00.00	2.90	2.90
TOTAL Walls (II to Flow)	1.00 EA		,	257	5,029	292	698'6	0	15,190	15189.85
05.01.03.02.10.03. Air Vent Castings										
M MIL AA <03217 0700 > Reinforcing in place, walls, $\#3$ to $\#7$	0.21 TON	N SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	4.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26 505	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	4.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	122.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES; C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 95

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05.01. Gate S1	QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	122.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Air Vent Castings	1.00 EA		•	20	388	25	810	0	1,223	1223.36
TOTAL Gatewell	1.00 EA			629	12,339	789	26,233	0	39, 361	39360.91
TOTAL Gatewell	1.00 EA		•	629	12,339	789	26,233	0	39,361	39360.91
05.01.03.03. Intake										
05.01.03.03.01. Intake										
05.01.03.03.01.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	248.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	569.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	11.90 TON	N SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	247.90 CY	N/A	0.00	0.00	0.00	0.00	126.26 31,300	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	1541.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	1541.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	1541.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		•	340	7,215	88	43,234	0	50,538	50538.40
05.01.03.03.01.02. Top Girders										
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	743.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket	9.00 CY	ULABC7	8.13	96.0	16.94	13.44	0.00	0.00	30.38	30.38

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittain Context Structure
05. Main Outlet Structure

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DETAIL PAGE

3.42 0.32 3.42 OTHER TOTAL COST UNIT COST 126.26 1241.93 4262.33 1241.93 126.26 16.22 0.32 2.90 126.26 30.38 1241.93 2722.11 3.42 126.26 505 30.38 0.32 3.42 126.26 10,101 16.22 2.90 1241.93 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 126.26 963.00 1.02 963.00 202 EQUIPMNT MATERIAL 126.26 505 0.03 1.02 1,214 963.00 126.26 10,101 0.03 0.81 2,192 0.00 0.00 0.00 54 0.00 0.00 0.00 0 0.00 0.00 0.00 6.21 0.00 0.00 121 LABOR 278.93 2.40 278.93 00.0 16.94 0.29 2.40 1,454 278.93 10.01 801 0.29 00.0 2.08 9 0.00 10.67 0.13 10.67 00.0 0.00 MANHRS 0.98 0.01 0.13 10.67 0.58 0.01 0.11 OUTPUT 0.38 47.13 0.00 0.38 8.13 67.50 0.38 0.00 54.38 13.75 67.50 47.13 0.21 TON SIWRRODM4 0.43 TON SIWRRODM4 ACMACEF11 3.87 TON SIWRRODM4 ACMACEF 11 QUANTY UOM CREW ID CLABC20 608.00 SF ACARC2 480.00 SF ACARC2 ULABC7 ACARC2 9.00 CY N/A N/A N/A 4.00 CY 4.00 CY 600.00 SF 80.00 CY 80.00 CY 2262.00 SF 2736.00 SF 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built #3 CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & M MIL AA <03217 0700 > Reinforcing in place, walls, M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mlx, regular weight, 4000 psi MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket 05.01.03.03.01.03. Top Beams 05.01.03.03.01.04. Headwall TOTAL Top Girders patch voids TOTAL Top Beams 05.01. Gate S1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.01. Gate S1	QUANTY UOM CREW	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
TOTAL Headwall	1.00 EA		,	423	8,236	497	16,125	0	24,858	24857.79
05.01.03.03.01.05. Backside Intake Double Wall										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	7.02 TON	7.02 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	00.0	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	145.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 18,308	0.00	126.26 18,308	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	145.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22 2,352	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	2058.00 SF	ACMACEF11	67.50	0.01	0.29	00.0	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	2040.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Backside Intake Double Wall	1.00 EA		•	415	8,255	901	26,793	0	35,949	35948.99
05.01.03.03.01.06. Transition To Conduit Side Curved Sections										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	1.41 TON	1.41 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00 1,358	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	29.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 3,662	0.00	126.26 3,662	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	29.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	252.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	450.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Transition To Conduit	1.00 EA		'	85	1,694	180	5,393	0	7,268	7267.72

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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DETAIL PAGE

05. Main Outlet Structure

0.32 2.90 0.32 2.90 OTHER TOTAL COST UNIT COST 126.26 16.22 699.74 1241.93 16.22 35608.12 1241.93 126.26 126.26 126.26 126 16.22 0.32 2.90 1241.93 6,818 126.26 16.22 0.32 2.90 1241.93 126.26 2,904 35,608 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 963.00 126.26 126 963.00 126.26 14,394 0.03 963.00 1,059 126.26 2,904 0.03 0.81 0.81 LABOR EQUIPMNT MATERIAL 0.00 0.00 311 23,017 0.00 0.00 0.00 6.21 0.00 0.00 0.00 0.00 0.00 6.21 00.0 708 0.00 278.93 0.00 278.93 2.08 10.01 0.29 2.08 278.93 0.00 10.01 10 0.29 43 383 11,884 0.00 0.11 0.00 10.67 10.67 0.00 0.58 0.11 10.67 0.58 0.01 20 OUTPUT MANHRS 0.01 47 611 0.38 00.0 13.75 13.75 0.38 0.00 54.38 0.38 0.00 67.50 54.38 67.50 0.06 TON SIWRRODM4 ACMACEF11 5.49 TON SIWRRODM4 ACMACEF11 1.10 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 ACARC2 3976.00 SF ACARC2 N/A N/A N/A 114.00 CY 150.00 SF 1.00 CY 150.00 SF 114.00 CY 1.00 CY 3201.00 SF 23.00 CY 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids 05.01.03.03.01.09. Divider Wall (II to Flow) M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps1 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 05.01.03.03.01.07. Transition To Conduit 05.01.03.03.01.08. Walls (II to Flow) TOTAL Transition To Conduit TOTAL Walls (II to Flow) 05.01. Gate S1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

ID: NAT01A

CREW

U.S. Army Corps of Engineers
PROJECI C43RES: C43 West Storage Reservoir - South Florida Water Management
05. Main Outlet Structure

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49.36 3.14 16.22 0.32 7304.96 1241.93 0.32 126.26 2620.87 171,831 171831.05 171,831 171831.05 1241.93 126.26 OTHER TOTAL COST UNIT COST 1241.93 7,427 126.26 9,949 3.14 2,076 2,382 7,305 49.36 2,621 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 00.0 0 0 0.00 0.00 375 963.00 5,759 126.26 0.03 0.81 0.03 126.26 641 LABOR EQUIPMNT MATERIAL 4,660 123,581 123,581 0.00 0.00 0.00 0.00 0.00 21.84 0.00 0.00 2,729 2,729 143 31 10.01 0.29 2.08 0.29 27.52 0.00 2.57 1,949 45,522 278.93 0.00 2,502 45,522 0.01 1.60 00.0 0.14 2,307 10.67 0.58 0.01 0.11 10.67 2,307 13 129 107 MANHRS OUTPUT 5.00 0.00 28.13 0.38 0.00 0.38 67.50 13.75 67.50 54.38 5.98 TON SIWRRODM4 ACMACEF 11 0.07 TON SIWRRODM4 662.00 SF ACMACEFI1 QUANTY UOM CREW ID CLABC20 662.00 SF ACARC1 822.00 SF ACARC2 ULABC7 N/A 78.80 CY N/A 23.00 CY 873.00 SF 1.40 CY 1.40 CY 1.00 EA 1.00 EA 1.00 EA 1.00 EA MIL AA <03372 0450 > Placing conc, columns, square/round, 12" thick, w/crane MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & MIL AA <03398 0010 > Finishing walls, break ties & patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03142 5650 > Forms in place, columns, plywood, 12" x 12", 4 use TOTAL Divider Wall (II to Flow) 05.01.03.04.01. Stilling Basin Parabolic Transition 05.01.03.03.01.10. Center Columns TOTAL Center Columns 05.01.03.04.01.01. Walls plywood TOTAL Intake TOTAL Intake 05.01.03.04. Stilling Basin 05.01. Gate Sl

UPB ID: UP01EA

CREW ID: NAT01A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West-Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.01. Gate S1	QUANTY	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
			; - - - - -] 	: : : : : : :	 	; ! ! ! !		
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	hick, 78.80 CY	Y CLABC20	13.75	0.58	10.01	6.21	00.0	0.00	16.22	16.22
MIL AA <03398 0010 > Finisning walls, break ties patch voids	s & 1890.00 SF	F ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, bel to 8' nigh, 4 use, job bui plywood	below gr, built 2835.00 SF	F ACARC2	54.38	313	2.08	0.00	0.81 2,305	0.00	2.90	2.90
TOTAL Walls	1.00 EA	₫:	1	450	8,911	489	18,074	0	27,475	27474.77
05.01.03.04.01.02. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	e, e 47.60 CY	Y ULABC6	20.63	0.29	3.93	0.36	0.00	00.0	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms wood, over 12", 4 use	forms, 179.00 SF	F ACARC1	43.75	0.09	1.65	00.00	0.83 149	00.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	3.61	TON SIWRRODM4	0.29	13.89	363.20 1,311	0.00	963.00 3,476	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	r 47.60 CY	Y N/A	00.00	0.00	0.00	0.00	126.26 6,010	0.00	126.26 6,010	126.26
MIL AA <03396 0010 > Finisning floors, monolithic, screed finish	ic, 858.00 SF	F ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finisning floors, monolithic, float finish	858.00	SF ACMACEFI1	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, proom finish	858.00	SF ACMACEFI1	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 E	EA	•	108	2,339	17	9,636	0	11,992	11992.02
05.01.03.04.01.03. Shear Key										
M MIL AA <03217 0700 > Reinforcing in place, walls, to #7	s, #3 0.27 TON	ON SIWRRODM4	0.38	10.67	278.93	0.00	963.00 260	0.00	1241.93 335	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	r 4.00 CY	Y N/A	0.00	0.00	0 000	0.00	126.26 505	0.00	126.26 505	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	ліск, 4.00 СУ	Y CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Res: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.01. Gate \$1	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	98.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	00.00	2.90	2.90
TOTAL Shear Key	1.00 EA			16	320	25	845	0	1,189	1189.18
05.01.03.04.01.04. Top Slab										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	37.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' high 4 use	37.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	858.00 SF	ACMACEF11	112,50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	39.70 CY	CLABC20	22.50	0.36	6.12 243	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	39.70 CY	N/A	0.00	0.00	0.00	0.00	126.26 5,013	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	3.01 TO	3.01 TON SIWRRODM4	0.29	13.89	363.20 1,093	0.00	963.00	0.00	1326.20	1326.20
TOTAL Top Slab	1.00 EA		•	71	1,614	151	7,968	0	9,732	9732.43
TOTAL Stilling Basin Parabolic	1.00 EA		•	645	13,184	682	36,523	0	50,388	50388.40
05.01.03.04.02. Stilling Hydraulic Jump Basin										
05.01.03.04.02.01. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	7.75 TO	7.75 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93 9,625	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weignt, 4000 psi	102.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	102.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	2451.00 SF	ACMACEF I 1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.01, Gate Sl	QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	3762,00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 3,059	0.00	2.90	2.90
TOTAL WALLS	1.00 EA			593	11,731	633	23,480	0	35,844	35844.42
05.01.03.04.02.02. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	88.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	341.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	00.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	6.66 TON	N SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	88.00 CY	N/A	00.00	00.00	0.00	0.00	126.26	00.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	790.00 SF	ACMACEF11	112.50	0.01	0.17	00.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	790.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	790.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		•	175	3,830	32	17,809	0	21,670	21670.36
05.01.03.04.02.03. Toe Support										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.27 TON	N SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	3.60 CY	N/A	00.00	00.00	0.00	00.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	3.60 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	98.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Toe Support	1.00 EA			16	316	22	794	0	1,132	1132.19

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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05. Main Outlet Structure

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05.01, Gate S1	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST (UNIT COST
05.01.03.04.02.04. Chute Blocks									
M MIL AA <03217 0700 > Reinforcing in place, walls, $\$3$ to $\$7$	0.30 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00 289	0.00	1241.93 373	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weignt, 4000 psi	0.40 CY N/A	00.0	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	0.40 CY CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	30.00 SF ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job bullt plywood	30.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Chute Blocks	1.00 EA	ı	7	159	8	365	0	526	526.12
05.01.03.04.02.05. Baffle Blocks									
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.08 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	1.10 CY N/A	00.00	0.00	00.00	0.00	126.26	00.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	1.10 CY CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	96.00 SF ACMACEFI1	67.50	0.01	0.29	0.00	0.03	00.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job bullt plywood	96.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Baffle Blocks	1.00 EA	1	14	261	7	297	0	565	565.04
05.01.03.04.02.06. End sill									
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	131.00 SF ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	3.00 CY CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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05. Main Outlet Structure

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05.01. Gate S1	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST (UNIT COST
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	3.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126,26	126.26
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.20 TON	SIWRRODM4	0.38	10.67	278.93	0.00	963.00 193	0.00	1241.93 248	1241.93
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	131.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL End Sill	1.00 EA		•	20	397	19	682	0	1,097	1097.42
05.01.03.04.02.07. Bridge Slab										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	31.00 SF	ACARC1	43.75	0.09	1.65	00.00	0.40	00.0	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	588.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14 673	00.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	649.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	27.00 CY	CLABC20	22.50	0.36	6.12 165	3.80	0.00	0.00	9.91 268	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	27.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 3,409	0.00	126.26 3,409	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	2.06 TON	2.06 TON SIWRRODM4	0.29	13.89	363.20 748	0.00	963.00 1,984	0.00	1326.20 2,732	1326.20
TOTAL Bridge Slab	1.00 EA		,	104	2,154	102	6,078	0	8,335	8334.65
05.01.03.04.02.08. Bridge Slab Sills										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	49.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	25.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	2.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	2.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 253	0.00	126.26 253	126.26

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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30% Submittal
05. Main Outlet Structure

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05.01. Gate S1	QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.12 TOK	0.12 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00 116	0.00	1326.20	1326.20
TOTAL Bridge Slab Sills	1.00 EA		•	7	141	00	387	0	536	536.12
TOTAL Stilling Hydraulic Jump Basin	1.00 EA		•	936	18,988	825	49,893	0	69,706	69706.33
TOTAL Stilling Basin	1.00 EA			1,581	32,172	1,507	86,416	0	120,095	120094.73
TOTAL Concrete	1.00 EA		,	7,097	142,218	8,136	420,896	0	571,249	571249.39
05.01.04. Rip Rap										
MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	283.00 CY	COFGB36C	54.38	0.09	3.39 959	4.02	25.96 7,346	0.00	33.37 9,443	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	1133.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	00.0	1,93	1.93
MIL AA <02270 1000 > Rib-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	567.00 CY	CODEB3A	9.75	0.51	10.53	6.14	24.71 14,008	0.00	41.37	41.37
TOTAL Rip Rap	1.00 EA		•	339	7,391	4,784	22,919	0	35,094	35093.79
05.01.05. Gates										
USR AA <05150 0001 > Sluice Gate 5' x 6' CI	4.00 EA	SIWSE21	0.05	150.94 604	8914.98 35,660	1912.82 7,651	22256.00 89,024	0.00	33083.79 132,335	33083.79
USR AA <05150 0001 > Sluice Gate 8' \times 6' CI	2.00 EA	SIWSE21	0.02	462.43 925	27311.77 54,624	5860.08 11,720	31565.00 63,130	0.00	64736.86 129,474	64736.86
USR AA <05150 0001 > Slide Gate 8' x 6' SST	10.00 EA	SIWSE21	0.03	313.73 3,137	18529.16 185,292	3975.66 39,757	24610.00 246,100	0.00	47114.83	47114.83
USR AA <15911 0262 > Motorized Gate Operator	16.00 EA	EBLEELEC2	0.08	24.10 386	1233.86	0.00	1605.00 25,680	0.00	2838.86 45,422	2838.86
USR AA <05120 0001 > Gate Stem	340.00 LF	SIWSE2	27.36	0.26	15.00	5.06	10.70	0.00	30.76 10,460	30.76
TOTAL Gates	1.00 EA			5, 138	300,417	60,850	427,572	0	788,839	788,839 788838.54

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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628.93 187.12 4787.43 9100.52 24457.72 831.67 368.80 1582.10 685.56 907.16 TOTAL COST UNIT COST 7773.84 48559.54 687.53 280.58 948.81 20585.58 24,458 40871.59 6543.09 31,095 7659.72 109,206 763.54 907 4029.48 700.00 529.36 157.49 578.68 310.41 9,488 1331.62 15,821 577.02 686 3,648 OTHER 0.00 0.00 0.00 700.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 00.0 0.00 0 2140.00 2,543 3745.00 4815.00 68,648 10700.00 21400.00 0.00 363.80 28 29.48 391.89 6,053 181.90 214.00 2,543 903.35 460.10 133.75 2,066 EQUIPMNT MATERIAL 514.97 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 85.16 62.38 17.03 20 0.00 0.00 0 LABOR 1889.48 2798.09 2844.72 9885.58 19471.59 23,134 0.00 165.56 13 128.01 152 186.79 2,885 128.51 499.44 5,934 365.89 99.89 119 248.57 102.41 36.90 55.56 667 0.00 6.00 3.63 2.00 2.00 54.64 192.31 192 2.50 2.50 10.00 7.33 4.85 379 MANHRS 378.79 0.82 OUTPUT 0.03 0.02 0.02 0.01 0.00 0.55 0.40 0.69 1.00 09.0 3.00 0.01 0.21 0.50 1.00 EA EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELECI QUANTY UOM CREW ID EELER19 EELER19 EELER19 0.07 MLF EELER18 EELER19 EELER15 EELER15 EELER15 1.00 EA 4.00 EA 12.00 EA 1.00 EA 1.00 EA 13.00 EA 7.00 EA 10.00 EA 1.00 EA 13.00 EA 10.00 EA 1.00 EA 1.00 LS MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 USR EL <16119 0002 > Actuator Starter & Remote Cntrls USR EL <16820 3580 > High Head Stilling well w/Remote RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position Lighting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, tapered USR EL <16119 0002 > Actuator Starter & Remote Cntri for Intake structure EL <16622 5230 > HID fxtr, floodlight, 250W nigh press sodium lamp, encl, heavy USR EL <16820 3580 > Stilling well w/Remote Controls USR EL <16181 0105 > Ground Rod 3/4" \times 20' Long amp, enclosed 600 volt, 3 pole USR EL <16711 0011 > Meter Connection by Utility Lighting, poles, wood, 20' NOTE: Use for Meter Pole USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 Light pole foundation 43' tall, round, 3" 0D, otagonal, conc USR EL <16611 4100 > Compact Fluorescent USR EL <16119 0001 > RTU\MOSCAD Controls USR EL <16617 0001 > MIL EL <16617 1040 USR EL <16617 0002 05.01.11. Electrical ΑF 05.01. Gate S1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

05.01. Gate S1

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management

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30% Submittal 05. Main Outlet Structure

56.67 5.20 6.13 7.19 12.97 952.34 10.61 910.93 1100.03 2730.93 OTHER TOTAL COST UNIT COST 1099.34 233.70 267.11 522.84 612.55 925.29 8.93 2298.57 205 196.70 234 440.07 515.57 925.88 4.38 5.16 6.05 10.92 156 766.71 911 224.82 267 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 332.77 128.40 153 105.93 3.21 802.50 107.00 69.02 18 293.72 1049.67 32.53 0.54 321.00 LABOR EQUIPMNT MATERIAL 0.91 0.00 0.00 0.00 0.00 9.87 4.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00 65.02 0.00 433.94 122.79 68.30 107.95 128 4.64 371.05 409.64 1,574 632.16 1,164 4.11 244 4.63 415.55 1248.90 15.17 5.14 7.99 8.47 2.40 1.33 8.00 8.00 0.11 7.25 12.35 24.39 0.30 0.08 0.09 0.10 0.15 MANHRS 19 OUTPUT 0.12 0.42 1.88 0.75 33,25 0.14 0.13 0.08 0.04 3.38 31.25 27.78 25.00 16.67 0.31 EELEELEC1 EELEELECI 0.22 MLF EELEELEC1 3.24 MLF EELEELEC1 1.55 MLF EELEELEC1 EELEELEC1 0.08 MLF EELEELEC1 QUANTY UOM CREW ID EELER19 COETR23 EELER19 EELER19 EELER19 ULABC6 **EELER3** 1.00 EA 1.00 EA 1.00 EA 1430.00 LF 1.00 EA 50.00 EA 90.00 EA 8.00 EA 12.00 EA 1.00 EA 1.00 EA MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 MIL EL <16232 2482 > Wiring device, receptacie, gnd fault intrpt, 20 amp, duplex MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for Panel L MIL EL <16711 0500 > Blec & tel sitewk, 2'x2'x2'-6"
D, hand holes, precast conc, MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting Controller USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting USR EL <16153 0010 > Cable Termination #1/0 copper, stranded, #12 copper, stranded, #10 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0013 > Cable Termination #10 copper, stranded, #6 USR EL <16153 0012 > Cable Termination #6 controller USR EL <16333 1401 > Photo-cell w/conc cov

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

n DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.01. Gate S1			QUANTY UOM	CREW ID	OUTPUT	MANHRS	LABOR E	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
) !
	MIL EL <16333 0620 > Contactor, lightin volt 4 pole, elect NOTE: Use for LC1	Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOIE: Use for LC1 & LC2	2.00 EA	EELEELEC1	0.41	2.42	123.98 295	0.00	269.11 639	0.00	393.09 934	467.03
	MIL EL <16338 5510 > Saf w/ 3R	> Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R	1.00 EA	EELEELEC1	0.31	3.20	163.86 195	0.00	354.06 421	0.00	517.92 615	615.34
	USR EL <16232 2483 > Wiring device, rec fault intrpt, 20 a	Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex WP	1.00 EA	EELEELEC1	2.89	0.35	17.70	0.00	53.50	0.00	71.20	84.59
	USR EL <16153 0011 > Cable Termination	ble Termination #4	6.00 EA	EELER19	20.83	0.12	6.17	0.00	1.12	0.00	7.29	8.66
	USR EL <16153 0012 > Cable Termination	ble Termination #6	14.00 EA	EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0013 > Cable Termination	ble Termination #8	22.00 EA	EELER19	27.78	0.09	4.63	0.00	0.80	0.00	5.43	6.45
	USR EL <16153 0014 > Cable Termination	ble Termination #12	478.00 EA	EELER19	31.25	0.08	4.11	0.00	0.27	0.00	4.38	5.20
	USR EL <16153 0016 > Cable Termination	ble Termination #16	54.00 EA	EELER19	31.25	0.08	4.11	0.00	0.16	0.00	4.27	5.08
	MIL EL <16018 0520 > Conduit to 15' H, couplings only, s	Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	254.00 LF	EELEELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16018 0540 > Conduit to 15' H, couplings only, s	1" dia, inci teel rigid galv	1191.00 LF	EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
	MIL EL <16018 0580 > Conduit to 15' H,1 couplings only, st	Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv	90.00 LF	SELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
	MIL EL <16712 1030 > Co	MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling	3200.00 LF	EBLEELEC1	32.50	0.03	1.58 5,990	0.00	0.57	0.00	2.148,146	2.55
	MIL EL <16712 1050 > Co	MIL EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, w/coupling	1260.00 LF	EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
	MIL EL <16018 0520 > Conduit to 15' H, couplings only, s	Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	75.00 LF	EELEELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16712 1050 > Co	MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling	530.00 LF	EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
	MIL EL <16712 1030 > Co	MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling	900.00 LF	EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14 2,291	2.55

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

05.01. Gate Sl

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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05. Main Outlet Structure

10.23 7.83 2.14 2.55 612.55 61,38 425.73 111.46 84.99 2338,65 2730.93 1100.03 522.84 OTHER TOTAL COST UNIT COST 603.94 3,459 6.59 1.80 93.82 515.57 3,414 51.66 71.54 1968.40 2,339 508.33 2298.57 1,598 925.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 3.49 2.18 0.39 39.80 105.93 702 10.70 727.07 864 293.18 1049.67 69.02 542 0.57 44.19 20.33 EQUIPMNT MATERIAL 48 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 LABOR 4.40 1.58 54.01 409.64 2,713 51.21 122 1241.33 215.15 256 1248.90 868 632.16 371.05 2,916 1.41 40.96 0.10 24.24 24.39 12.35 7.25 6.00 0.09 0.03 0.03 6.14 1.05 8.00 0.80 1.00 4.20 MANHRS OUTPUT 32.50 0.16 0.13 1.25 1.00 0.08 0.24 0.04 0.08 0.14 10.00 11.63 36.25 1.24 EELEELEC1 EELEELEC1 EELEELECI 5.57 MLF EELEELEC1 EELEELEC1 **EELEELEC1** EELEELEC2 EELEELEC1 0.59 MLF EELEELEC1 0.16 MLF EELEELEC1 6.62 MLF EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER20 0.07 MLF 12.00 EA 2.00 EA 1.00 EA 1.00 EA 5.00 LF 70.00 LF 1490.00 LF 2.00 EA 20.00 LF MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 RSM EL <16119 0920 > Wire, 600 volt, type THWN-THHN, copper, solid, #14 MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl MIL EL <16337 1700 > Safety switch, heavy duty, 600 V, 3 pole non fused, 100 A MIL EL <16326 0100 > Panelboard&ld ctr ckt brkr,15 50A,bolt-on,10k AIC,1 P,120V MIL EL <16325 4390 > Panelboard assem, 42-20A brkr, main 1ugs, 225A, 1ph, 3 wire, 120/240V MIL EL <16326 0310 > Panelboard&1d ctr ckt brkr,70 100A,bolt-on,10k AIC,1 P,120V MIL EL <16181 6000 > Grounding, laid in trench, CIV EL <16153 0320 > MIL EL <16119 1250

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

625.11

526.15

0.00

360.59

0.00

165.56

0.55

0.02 MLF EELER18

copper, bare stranded, #4

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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4.13 168.87 373.99 1544.06 675.49 233.70 831.67 187.12 OTHER TOTAL COST UNIT COST 102.04 180.11 214.54 102.04 6295.07 615.03 85.88 142.13 5298.43 6,295 517.66 2,460 157.49 180.57 3.47 85.88 1299.60 3,088 568.55 675 196.70 234 700.00 314.78 374 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 700.00 0.00 0.00 29.48 19.57 69.67 69.98 44.60 3210.00 3,814 354.06 1,683 871.23 2,070 363.73 432 128.40 1.20 160.50 19.57 LABOR EQUIPMNT MATERIAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2088.43 2,481 163.59 0.00 66.31 81.93 110.59 97.53 154.28 66.31 428.38 1,018 204.82 68.30 128.01 152 2.28 75.69 3.19 2.50 1.29 1.90 0.04 1.29 8.33 1.60 2.16 3.00 4.00 1.33 0.00 MANHRS 0.53 1.88 00.0 OUTPUT 1.94 0.63 0.46 22.50 0.83 1.94 0.04 0.31 0.30 0.25 0.40 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELECI EELEELEC1 EELEELEC1 ΙD EELER19 EELER19 EELER18 EELER19 1.00 EA EELER19 EELER19 QUANTY UOM CREW 1.00 EA 21.00 EA 1.00 EA 3.00 EA 1.00 EA 555.00 LF 1.00 EA 1.00 EA 1.00 EA 4.00 EA 2.00 EA 1.00 EA 1.00 LS MIL EL <16313 9650 > Motor starter & cont, NEMA 1, size 1, comb, rev, w/disc switch MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling RSM EL <16324 0100 > Mater centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16338 5510 > Safety switch, nvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R MIL EL <16213 0330 > Pull box, sneet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6" CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H x 12"D, sheet met, db1 dr, NEMA MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, MIL EL <16181 6310 > Grounding, gna conductor bona, 4/0-300 MCM, splice or lug, CIV EL <16213 2744 > Pull box, ninged, steel, NEMA $12^{\rm H} \rm W \times 12^{\rm H} \rm H \times 6^{\rm H} \rm D$ MIL EL <16213 0380 > Pull box, sheet metal, NEMA type SC, 24"W \times 18"H \times 6"D USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, NOTE: Use for RTU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <16869 0090 > Lighting Contactor conduit, etc. USR EL <16333 1401 > Photo-cell 05.01. Gate S1

UPB ID: UP01EA

ID: NAT01A

CREW

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage enservoir - South Florida Water Management

30% Submittal 05. Main Outlet Structure

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6.13 5.14 54.64 55.75 OTHER TOTAL COST UNIT COST 189.42 448.57 164.83 736.09 910.17 848.03 280.58 1656.64 1620.70 157.49 708.21 138.73 713.77 132.55 596.08 1,416 763.54 1,814 377.55 159.43 758 5.16 4.33 45.99 219 46.92 619.55 1,472 766.07 1,820 236.16 1394.36 1,621 1364.11 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 107.00 EQUIPMNT MATERIAL 514.97 26.75 53.50 254 0.54 0.21 30.82 9.68 1,182 371.08 246.10 1134.20 65.16 310 1,081 146 133.75 1,112 535.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 17.77 57.54 68.12 0.00 0 0.00 0.00 LABOR 248.57 270.55 111.98 105.93 503 4.63 4.11 15.17 37.24 104.23 248 337.46 399.55 102.41 260.16 258 829.11 985 67.39 141.33 4.85 5.26 4.23 4.00 0.09 0.30 0.73 2.09 6.76 8.00 2.00 16.13 16 1.43 2.76 0.08 9.43 MANHRS INGINO 0.48 0.59 0.63 27.78 0.75 31.25 3.38 1.38 2.88 0.89 0.50 0.35 0.16 3.25 0.72 0.21 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC2 QUANTY UOM CREW ID EELER19 MSHMQ20 EELER19 EELER19 EELER15 EELER15 EELER15 0.84 MLF EELER18 EELER19 MSHMQ20 EELER22 EA 1.00 EA 4.00 EA 12.00 EA 2.00 EA 2.00 EA 4.00 EA 7.00 EA 6.00 EA 128.00 EA 4.00 EA 2.00 EA 1.00 EA 4.00 EA 2.00 EA 2.00 MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered MIL EL <16617 3500 > Poies, area lighting, 20' tall, round, 3" OD, galv steel, USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8) Ltg fxtr, 175w Metal Halide (EH-1) MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0 Limit and Rotary Switches USR EL <16153 0016 > Cable Termination #10 USR EL <16617 3300 > Light Pole Foundation USR EL <16153 0014 > Cable Termination #14 USR EL <13810 0002 > Push Button Stations USR EL <13810 5471 > Surge Suppressor USR EL <16865 0125 > Level Gage ۸ USR EL <13810 0001 > 0001 > MIL EL <16611 3030 <16611 USR EL ΑF 05.01. Gate S1

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 05. Main Outlet Structure PROJECT C43RES:

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10.61 270.65 400.49 12.97 TOTAL COST UNIT COST 708.21 524.68 1454.43 825.12 26880.83 6298.93 1099.34 451,920 451920.16 50586.44 50586.44 50,586 22625.06 26,881 596.08 1,416 441.62 2,099 227.80 2,165 8.93 35,240 337.08 10.92 389 925.29 1224.16 5301.68 6,299 694.48 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,663 0.00 0.00 00.0 00.0 41730.00 0.00 182.44 173 19260.00 22,883 1,081 151.62 802.50 953 EQUIPMNT MATERIAL 322.07 448.33 42.80 3.21 4892.04 5,812 223,801 1676.22 1,676 0.00 0.00 0.00 4.30 16,951 0.00 0.00 0.00 00.0 0.00 0.00 27,157 541 7180.22 7,180 LABOR 141.33 119.55 4.64 775.83 7.71 3,457 122.79 294.28 512.05 199,299 409.64 2.76 2.33 15,15 55.93 56 2.40 130.08 1.62 0.11 0.15 MANHRS 10.00 5.75 8.00 3,425 0.72 1.08 2.88 33,25 0.07 0.10 0.17 16.67 0.04 0.25 0.42 90.0 OUTPUT EELEELEC2 EELEELEC1 0.03 MLF EELEELEC1 0.80 MLF EELEELEC1 0.16 MLF EELEELEC1 EELEELEC2 QUANTY UOM CREW ID 1.00 EA SIWSE7A EELER19 EELER22 COETR23 EELER19 EELER3 2.00 EA 3320.00 LF 30.00 EA 1.00 EA 1.00 EA 1.00 EA 4.00 EA 8.00 EA 1.00 EA security, ext wall NOTE: Use for type D (250w Metal Lig fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12) MIL EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 USR EL <16119 0990 > Wire, 600 volt, type THWN-THHN, Note: Material price from Concrete Modular Systems 727-945-1756 AIIN: Frederick Kennedy MIL EL <16119 1300 > Wire, 600 volt, type IHWN-THHN copper, stranded, #8 MIL EL <16511 1340 > Automatic transfer switch, 225 amp, enclosed 600 volt, 3 pole USR AA <03450 0001 > Precast Conc Building 12' x 22' MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain NOTE: Use for fixture type C NOTE: Use for fixture type B Ltg fxtr, 175w Metal Halide USR EL <16513 2015 > Emergency Generator 35 KW USR EL <16153 0010 > Cable Termination #1/0 Ltg, HID fxtr,250W USR EL <16323 0001 > Terminal Box Halide EH9) TOTAL Electrical trencher 05.01.15. Equipment Building USR EL <16622 3010 > MIL EL <16622 3060 > MIL EL <16611 4120 > 05.01. Gate S1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 05. Main Outlet Structure PROJECT C43RES:

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1.48 7.49 3.05 17.95 0.17 0.22 0.23 18.10 12.54 51880.06 18.40 TOTAL COST UNIT COST 1090.80 126.26 457.01 449.71 7.49 3,788 18.40 2,796 17.95 0.17 0.22 0.23 18.10 457.01 1,828 12.54 51,880 449.71 1090.80 126.26 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 00.0 00.0 0.00 0 0.00 0.00 9.10 727.60 146 0.00 16.26 81 321.00 321.00 EQUIPMNT MATERIAL 0.51 126.26 00.0 0.91 1,128 13.91 2,114 42,623 0.00 7.94 88.76 0.00 0.00 0.00 0.00 0.13 0.15 0.00 0.00 0.77 1,720 0.00 0.00 LABOR 0.96 363.20 10.01 0.22 0.23 1.07 3.32 2.00 4.49 119.95 00.00 0.17 46 7,537 136.01 544 0.03 0.05 30.06 3.33 0.05 0.20 2.30 MANHRS 13.89 0.00 0.58 0.01 0.01 0.01 148 0.04 48 OUTPUT 75.00 0.29 0.00 13,75 90.63 84.38 0.30 75.00 78.18 5.00 1.30 112.50 47.50 16.25 ACMACEF 11 ACMACEF11 ACMACEF 11 480.00 LF ACARCARP1 0.20 TON SIWRRODM4 MPLUPLUM1 **AMABBRIC1** CODFB10N QUANTY UOM CREW ID ULABC7 SIWSE4 SIMSE3 68.00 LF ACARC1 N/A 5.00 CY 5.00 CY 264.00 SF 264.00 SF 264.00 SF 5.00 CY 1751.00 SF 4.00 EA 1240.00 LB 152.00 EA 10.00 EA 1.00 JB MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" nign, 4 use Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building MIL AA <03372 4400 > Placing conc, slab on grade, 6" MIL AA <03198 1050 > Waterstop, PVC, dumbbell, 9" wide, 3/8" thick, center bulb MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi M MIL AA <05542 0622 > Heavy Duty Steel Grating MIL AA <02752 3920 > Maintenance Ladder Rungs B RSM AA <05130 0450 > Maintenance Ladder Posts thick, w/crane & bucket USR AA <15115 0571 > Wall Thimble Type F TOTAL Equipment Building RSM AA <05130 0450 > W8 X 31 I Beam MIL AA <02215 2460 > 05.01.90. Miscellaneous 05.01. Gate S1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submitted
05. Main Outlet Structure

TIME 09:25:13

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56.10 44.73 5.46 0.75 43.39 1035.19 77966.16 1323.70 1323.70 TOTAL COST UNIT COST 5713.17 1323.70 1323.70 1323.70 1323.70 795.97 2387.92 1056.00 1056.00 2,647 56.10 44.73 5.46 5713.17 1035.19 1056.00 1056.00 1905.00 0.60 43.39 1056.00 5,295 1,324 635.00 77,966 1056.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 856.00 1,073 0.40 535.00 856.00 2,146 856.00 2,146 0.00 27.82 10.70 3210.00 6,420 856.00 4,292 856.00 4,292 1605.00 MATERIAL 856.00 1,073 535.00 43,409 0.00 0.00 0.00 EQUIPMNT 0.00 0.00 0.00 0.72 0.57 0.34 0.13 0.00 34.06 1,758 0.00 0.00 LABOR 19.00 15.00 34.03 4.72 9,635 466.13 200.00 200.00 200.00 200.00 200.00 0.47 4,665 200.00 100.00 2332.74 32,799 0.00 0.00 0.01 0.30 0.09 8.95 00.0 MANHRS 0.24 0.88 55 44.78 651 0.00 0.00 0.00 0.00 0.00 8 13.12 16.61 3.41 33.13 0.07 0.34 0.00 00.0 0.00 0.00 00.0 0.00 0.00 0.00 90.63 OUTPUT QUANTY UOM CREW ID CODBB54 SIWSE3 90.00 VLF SIWSE4 SIWSE4 MPLU02 SIMSE3 SIMSE3 N/A N/A N/A N/A N/A N/A 162.00 LF 2042.00 LB 2.00 EA 2.00 EA 2.00 EA 4.00 EA 4.00 EA 2.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 3000.00 LF 62.00 LF 1.00 EA MIL AA <05518 0010 > Maintenance Ladder Safety Cage USR MC <15743 0001 > Emergency Generator IO Points MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher B MIL AA <05523 0530 > 2 1/2" Dia Steel railing 42" Hign USR MC <15743 0001 > Upstream Downstream Level IO USR MC <15743 0001 > Downstream Sampler IO Points USR MC <15743 0001 > Middle Level Gate IO Points B RSM AA <05130 0450 > 10' Dewatering Needle Beam USR MC <15743 0001 > Upper Level Gate IO Points USR MC <15743 0001 > Telemetry To/From Gated Structure MIL AA <15155 1970 > Pipe PVC sched 40 no coupling/hanger 8" dia USR MC <15743 0001 > Service Gate IO Points B RSM AA <05130 0450 > Needle Beam Buidhead > 16 VHF Data Radios Structure RSM AA <05130 0450 > Irash Strut Steel TOTAL Miscellaneous USR MC <15743 0001 05.01.95. Controls AF 05.01. Gate S1

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

05.01. Gate S1

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9.13 OTHER TOTAL COST UNIT COST 51,352 51352.13 17,188 708,250 105,625 1,222,229 1,663 2,037,768 2037768 7.28 0.00 4.28 33,799 LABOR EQUIPMNI MATERIAL 0.00 491 3.00 17,062 30.35 326 OUTPUT MANHRS 359 QUANTY UOM CREW ID 3000,00 LF EELER18 1.00 EA 1.00 EA USR MC <15743 0001 > Control Conduit & Cable TOTAL Controls TOTAL Gate S1

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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368.00 SF CPIDE40 95.63 31 1.527 729 16.05 0.00 21.07 2 1.00 EA 1.00 EA 31 1.527 729 7.211 0 9,467 946 2 1.00 EA 31 1.527 729 7.211 0 9,467 946 2 1.00 EA 31 1.527 729 7.211 0 9,467 946 2 1.00 EA 31 1.527 729 7.211 0 9,467 946 2 1.00 EA 31 1.527 729 7.211 0 9,467 946 2 1.00 EA 31 1.527 729 7.211 0 9,467 946 2 1.00 EA 31 1.527 729 7.211 0 9,467 946 2 1.00 EA 31 1	05.04. Gate S8	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
1.00 EA 1.00	05.04. Gate S8									 	
TOTAL Sheet Filing	05.04.02. Sheet Piling										
TOTAL Sheet Filing 1.00 Typical Conduits 1.10 Typical Conduits 1.10 Typical Conduits 1.10 Typical Conduits 1.10 Typical Conduits 1.10 Typical Conduits 2.10 USR TF <02161 0001 > Steel Sheet Pile Cutoff	368.00 SF	CPIDB40	95,63	0.08	3.40	1.62	16.05	0.00	21.07	25.73	
1.10. Typical Conduits 2.001.10.01. Base Siab 2.0000 > Placing conc, siab on grade, over 12", 4 use wood, over 12", 4 use wood cover 12", 4 use wood, over	TOTAL Sheet Piling	1.00 EA		1	31	1,527	729	7,211	0	9,467	9467.32
05.04.03.01.10 Typical Conduits 05.04.03.01.10 Typical Conduits 05.04.03.01.10 Typical Conduits 05.04.03.01.10 Typical Conduit 05.04.03.01 Typical	05.04.03. Concrete										
05.04.03.01.10. Typical Conduit 05.04.03.01.10.01 Base Slab MIL AA <03372 4600 > Placing conc, slab on grade, vore 6" thick, direct cnue 05.04.03.01.10.01 Base Slab MIL AA <03372 4600 > Placing conc, slab on grade, vore 6" thick, direct cnue 05.04.03.01.10.01 Base Slab MIL AA <03372 4600 > Placing conc, slab on grade, vore 6" thick, direct cnue 270.00 CY ULABC6 20.63	05.04.03.01. Conduits										
05.04.03.01.10.01. Base Slab MIL AA <03372 4600 > Placing conc, slab on grade, over fit thick, direct chute NIL AA <03372 4600 > Placing conc, slab on grade, over fit thick, direct chute 05.04.03.01.10.02. Center Haunch MIL AA <03372 4600 > Placing conc, slab on grade, slab slab slab slab slab slab slab slab	05.04.03.01.10. Typical Conduit										
MIL AA c03372 4600 P Placing conc, slab on grade, Will AA c03372 4600 P Placing conc, slab on grade, Will AA c03372 4600 P Placing conc, slab on grade, Will AA c03370 3060 P Placing conc, slab on grade, Will AA c03370 5060 P Ranfecting in place, soc, edge forms, Will AA c03270 6600 P Ranfecting in place, slab on grade, #3 to #7 Will AA c03270 6600 P Ranfecting in place, slab on grade, #3 to #7 Will AA c03270 6600 P Ranfecting in place, slab on grade, #3 to #7 Will AA c03372 60300 Concrete ready mix, regular Sched finish and concrete ready mix, regular Will AA c03396 0100 P Finishing floors, monolithic, A c03396 0100 P Finishing floors, monolithic, A c03396 0100 P Finishing floors, monolithic, A c03396 0150 P Finishing floors, monolithic, A c0340 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05.04.03.01.10.01. Base Slab										
MIL AA <03217 0 500 Perms in place, SOG, edge forms, 65.00 SF ACARCI 43.75 61 1,098 0.00 0.83 0.00 2.49 MIL AA <03217 0 500 Perms in place, SOG, edge forms, 65.00 SF ACARCI 43.75 61 1,098 0.0 555 0 0.10 126.20 0.00 17,453 132 MIL AA <03320 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ψ	270.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
NIL AA <03217 0600 > Reinforcing in place, #3 to #7 NIL AA <03227 0600 > Reinforcing in place, #3 to #7 NIL AA <03217 0600 > Reinforcing in place, #3 to #7 NIL AA <03326 0300 > Concrete ready mix, regular wight, 4000 psi	MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use		ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
NII AA (03372 60300 > Concrete ready mix, regular 120.00 CY N/A 0.00 0.	ce, slab	13.16 TON		0.29	13.89	363.20 4,780	0.00	963.00 12,673	0.00	1326.20	1326.20
3120.00 SF ACMACEFII 112.50 28 541 0.00 0.00 0.17 3120.00 SF ACMACEFII 90.63 34 671 0.00 0.00 0.00 0.22 3120.00 SF ACMACEFII 78.75 40 772 0.00 0.00 0.00 0.25 3120.00 SF ACMACEFII 78.75 40 772 0.00 0.00 0.00 0.25 14.00 CY ULABC6 20.63 6 55 3.93 0.36 0.00 0.83 0.00 2.49	RSM AA	270.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 34,090	0.00	126.26 34,090	126.26
3120.00 SF ACMACEFII 90.63 34 671 0.00 0.00 0.00 0.22 3120.00 SF ACMACEFII 78.75 40 772 0.00 0.00 0.00 0.25 14.00 CY ULABC6 20.63 4 55 5 0.00 0.83 0.00 0.83 0.00 2.49	<03396 0010 > Finishing floors, screed finish		ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
3120.00 SF ACMACEFI1 78.75 40 772 0.00 0.00 0.00 0.25 14.00 CY ULABC6 20.63 4 55 5 0.00 0.83 0.00 2.49	<pre><03396 0100 > Finishing floors, monolithic, float finish</pre>		ACMACEF11	90.63	0.01	0.22 671	0.00	0.00	0.00	0.22	0.22
14.00 CY ULABC6 20.63 4 55 5 0.00 0.83 0.00 2.49	monolithic,		ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	. 0.25 772	0.25
0.29 3.93 0.36 0.00 0.00 4.28 14.00 CY ULABC6 20.63 4 55 5 0 0 60 156.00 SF ACARCI 43.75 14 258 0 0 130 0 2.49	TOTAL Base Slab			1	424	8,922	16	47,318	0	56,337	
14.00 CY ULABC6 20.63 4 55 5 0 0.00 4.28 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05.04.03.01.10.02. Center Haunch										
156.00 SF ACARCI 43.75 14 258 0 130 0 388	MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	14.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
	MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	156.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 117

TIME 09:25:13

05.04, Gate S8	QUANTY UOM CREW	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.70 TON	I SIWRRODM4	0.29	13.89	363.20	0.00	963.00	00.0	1326,20	1326 20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	14.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
TOTAL Center Haunch			•	28	567	5	2,572	0	3,144	
05.04.03.01.10.03. Top Slab										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	722.00 SF	ACARC1	43.75	0.09	1,65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	722.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	3120.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	283.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	00.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	283.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 35,732	0.00	126.26 35,732	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	13.79 TON	1 SIWRRODM4	0.29	13.89	363.20 5,008	0.00	963.00 13,280	0.00	1326.20	1326.20
TOTAL TOP Slab			•	456	9,795	1,074	50,124	0	60,992	
05.04.03.01.10.04. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	7.60 TON	1 SIWRRODM4	0.38	10.67	278.93 2,120	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	156.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 19,697	0.00	126.26 19,697	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	156.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22 2,530	16.22
MIL AA <03398 G010 > Finishing walls, break ties & patch voids	3744.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	5670.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 4,611	0.00	2.90	2.90

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Res: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 118

TIME 09:25:13

05.04. Gate S8	QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
TOTAL Walls				1 00	000		1 7 7 7 6			
				9	200 101	000	31, 140	0	49,295	
TOTAL Typical Conduit				1,760	35,863	2,145	131,760	0	169,768	
05.04.03.01.15. Conduit at Gatewell										
05.04.03.01.15.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	100.00 CY	ULABC6	20.63	0.29	3.93 393	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	209.00 SF	ACARC1	43.75	0.09	1.65 345	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	4.89 TON	N SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	100.00 CY	N/A	00.00	00.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	562.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	562.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	562.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab				134	2,871	36	17,510	0	20,416	
05.04.03.01.15.02. Top Slab										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	398.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	540.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	809.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	83.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	83.00 CY	N/A	0.00	0.00	0.00	0.00	126.26 10,480	0.00	126.26	126.26

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

05.04. Gate S8

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal OS. Main Outlet Structure

TIME 09:25:13 DETAIL PAGE 119

126.26 0.32 2.90 OTHER TOTAL COST UNIT COST 1326.20 1241.93 126.26 16.22 233,965 233965.39 1241.93 16.22 1326.20 5,345 126.26 12,500 1241.93 16.22 0.32 2.90 24,572 126.26 8,207 16.22 1,054 19,209 64,197 0.00 0.00 0.00 00.0 0.00 0.00 0.00 0.00 0.00 0.00 0 0 963.00 3,881 126.26 12,500 LABOR EQUIPMNT MATERIAL 15,136 963.00 0.00 0.03 182,749 963.00 3,544 126.26 8,207 0.03 0.81 0.00 50,989 18,343 0.00 0.00 315 0.00 0.00 6.21 0.00 3,111 0.00 6.21 0.00 615 996 363.20 1,464 3,758 278.93 0.00 10.01 0.29 2.08 278.93 1,026 0.00 10.01 651 0.29 5,614 12,243 48,105 13.89 10.67 0.00 0.58 0.11 0.00 0.01 181 0.01 10.67 0.58 MANHRS 282 598 2,358 OUTPUT 0.29 0.38 00.0 13.75 67.50 0.00 13.75 0.38 54.38 4.03 TON SIWRRODM4 4.82 TON SIWRRODM4 ACMACEF11 3.68 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 1440.00 SF ACARC2 N/A N/A 99.00 CY 99.00 CY 960.00 SF 65.00 CY 65.00 CY 1176.00 SF 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 05.04.03.02.10.01. Walls (I to Flow) TOTAL Conduit at Gatewell 05.04.03.01.15.03. Walls TOTAL Top Slab TOTAL Conduits 05.04.03.02.10. Gatewell TOTAL Walls 05.04.03.02. Gatewell

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

67.50

ACMACEF 11

UPB ID: UP01EA CREW ID: NAT01A

0.32

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 120

TIME 09:25:13

05.04. Gate S8	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	2496.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls (I to Flow)				370	7,219	404	13,818	0	21,441	
05.04.03.02.10.02. Walls (II to Flow)										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	2.25 TON	N SIWRRODM4	0.38	10.67	278.93 628	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	40.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	40.00 CY	CLABC20	13.75	0.58	10.01	6.21 248	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	960.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	1440.00 SF	ACARC2	54.38	0.11	2.08	00.00	0.81	0.00	2.90	2.90
TOTAL Walls (II to Flow)				220	4,306	248	8,419	0	12,974	
05.04.03.02.10.03. Air Vent Castings										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.18 TON	N SIWRRODM4	0.38	10.67	278.93	0.00	963.00 173	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	3.20 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	3.20 CY	CLABC20	13.75	0.58	10.01	6.21	00.0	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	104.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	104.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Air Vent Castings				17	329	20		0	1,014	

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.04. Gate S8	QUANTY UOM CREW ID	1	OUTPUT M	MANHRS	LABOR E	EQUIPMNT	MATERIAL	OTHER I	TOTAL COST UNIT COST	WIT COST
T. T. T. T. C. KAROGE			1	109	0.11	673	22 902		35, 429	
IOIAL GACEMEII			ł			3 ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1) 		
TOTAL Gatewell				607	11,854	672	22,902	0	35,429	
05.04.03.03. Intake										
05.04.03.03.01. Intake										
05.04.03.03.01.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	248.00 CY UI	ULABC6	20.63	0.29 72	3.93 974	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	569.00 SF A	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	12.89 TON S	SIWRRODM4	0.29	13.89	363.20 4,682	0.00	963.00 12,413	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	248.00 CY N	N/A	00.00	0.00	0.00	0.00	126.26 31,312	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	1541.00 SF A	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	1541.00 SF A	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	1541.00 SF A	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		i	353	7,575	68	44,200	0	51,864	51863.96
05.04.03.03.01.02. Top Girders										
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	743.00 SF A	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket	8.80 CY U	ULABC7	8.13	0.98	16.94 149	13.44	0.00	0.00	30.38	30.38
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	8.80 CY N	N/A	00.00	00.0	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.46 TON S	SIWRRODM4	0.38	10.67	278.93 128	0.00	963.00 443	0.00	1241.93 571	1241.93
CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders	608.00 SF #	ACARC2	47.13	0.13	2.40	0.00	1.02	0.00	3.42	3.42
LABOR ID: C43RES EQUIP ID: C43RES	Currency	Currency in DOLLARS					CREW	CREW ID: NAT01A	UPB ID: UP01EA	JPOIEA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 05. Main Outlet Structure PROJECT C43RES:

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0.32 16.22 0.32 2.90 30.38 3.42 OTHER TOTAL COST UNIT COST 4268.26 1241.93 126.26 2809.61 1241.93 126.26 21974.25 1241.93 1241.93 0.32 126.26 556 0.32 3,42 126.26 8,712 16.22 2.90 21,974 4,268 30.38 2,810 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 000 963.00 126.26 556 0.03 963.00 3,467 126.26 8,712 0.03 0.81 963.00 6,317 MATERIAL 2,196 00.0 1.02 1,284 00.0 14,218 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 EQUIPMNT 118 13.44 59 0.00 429 LABOR 1,954 278.93 00.0 16.94 75 0.29 2.40 1,466 278.93 0.00 10.01 691 0.29 2.08 7,328 278.93 1,830 0.01 10.67 70 102 10.67 0.00 0.98 0.01 0.13 10.67 0.00 0.58 0.11 MANHRS 77 47.13 OUTPUT 0.38 00.0 8.13 67.50 0.38 00.0 13.75 54.38 0.38 67.50 ACMACEF11 3.60 TON SIWRRODM4 ACMACEF11 6.56 TON SIWRRODM4 0.23 TON SIWRRODM4 CLABC20 QUANTY UOM CREW ID 480.00 SF ACARC2 ACARC2 ULABC7 N/A 4.40 CY 500.00 SF 69.00 CY 2430.00 SF 4.40 CY 69.00 CY 1968.00 SF 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nign, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #705.04.03.03.01.05. Backside Intake Double Wall CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties patch voids MIL AA <03398 0010 > Finishing walls, break ties M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket 05.04.03.03.01.03. Top Beams 05.04.03.03.01.04. Headwall patch voids TOTAL Top Girders TOTAL Top Beams TOTAL Headwall 05.04. Gate S8

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storade Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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16.22 2.90 2.90 TOTAL COST UNIT COST 126.26 0.32 31689.64 126.26 16.22 0.32 126.26 16.22 1241.93 7391.92 1241.93 126.26 1241.93 16.22 2,044 2.90 31,690 126.26 3,662 16.22 470 0.32 2.90 7,392 126.26 126 16.22 16 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 126.26 MATERIAL 0.00 0.03 0.81 963.00 1,454 126.26 3,662 0.81 963.00 126.26 126 0.00 0.00 0.03 5,490 23,693 EQUIPMNT 6.21 0.00 0.00 0.00 0.00 6.21 00.0 0.00 0.00 0.00 6.21 783 180 LABOR 0.00 10.01 0.29 2.08 278.93 0.00 10.01 290 0.29 2.08 278.93 0.00 10.01 7,214 1,722 0.00 0.58 0.01 10.67 0.00 0.00 0.58 0.11 0.58 0.01 0.11 98 10.67 MANHRS 361 OUTPUT 00.0 13.75 67.50 54.38 0.38 0.00 13.75 54.38 0.38 0.00 13.75 67.50 ACMACEF 11 1.51 TON SIWRRODM4 ACMACEF11 0.07 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 CLABC20 ACARC2 ACARC2 126.00 CY 1764.00 SF 29.00 CY 450.00 SF 126.00 CY 1734.00 SF 29.00 CY 252.00 SF 1.00 CY 1.00 CY 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nign, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 #3 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, walls, MIL AA <03398 0010 > Finishing walls, break ties patch voids MIL AA <03398 0010 > Finishing walls, break ties patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Backside Intake Double Wall 05.04.03.03.01.06. Transition To Conduit Side Curved Sections 05.04.03.03.01.07. Transition To Conduit Center Section M MIL AA <03217 0700 > Reinforcing in place, TOTAL Transition To Conduit padund 05.04. Gate S8

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

U.S. Atmy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.04. Gate S8	QUANTY UC	QUANTY UOM CREW ID	TUGINO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
					 		 - - - - - - - -	1	1	
MIL AA <03398 0010 > Finishing walls, break ties a	& 150.00 SF	P ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below to 8' high, 4 use, job built plywood	gr, 150.00 SF	F ACARC2	54.38	0.11	2.08	0.00	0.81	00.00	2.90	2.90
TOTAL fransition To Conduit	1.00 EA	-		20	385	9	320	0	712	712.16
05.04.03.03.01.08. Walls (II to Flow)										
M MIL AA <03217 0700 > Reinforcing in place, walls, to $\#7$	## 33	5.09 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	98.00 CY	(N/A	0.00	00.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	.ck, 98.00 CY	r CLABC20	13.75	0.58	10.01 981	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finisning walls, break ties opton voids	£ 2781.00 SF	F ACMACEFI1	67.50	0.01	0.29	00.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	gr, 3556.00 SF	: ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls (II to Flow)	1.00 EA	,,		545	10,615	609	20,256	0	31,480	31479.99
05.04.03.03.01.09. Divider Wall (II to Flow)	c									
M MIL AA <03217 0700 > Reinforcing in place, walls, to ${\pm}7$	#3 1.19 TON	ON SIWRRODM4	0.38	10.67	278.93	0.00	963.00 1,146	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	23.00 CY	f N/A	00.00	00.00	0.00	0.00	126.26 2,904	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	.ck, 23.00 CY	f CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties patch voids	& 873.00 SF	F ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	gr, 822.00 SF	7 ACARC2	54.38	0.11	2.08	0.00	0.81 668	0.00	2.90	2.90

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.04. Gate S8	QUANTY UOM CREW ID		OUTPUT MA	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
TOTAL Divider Wall (II to Flow)	1.00 EA			130	2.527	143	100			
) }	1	CF 7	0 1 1	>	/ 1 4 / /	7410.73
05.04.03.03.01.10. Center Columns										
M MIL AA <03217 0700 > Reinforcing in place, walls, $\#3$ to $\#7$	0.07 TON SIWRRODM4		0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	662.00 SF ACMA	ACMACEF11 67	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03372 0450 > Placing conc, columns, square/round, 12" thick, w/crane & bucket	1.40 CY ULABC7		5.00	1.60	27.52	21.84	0.00	0.00	49.36	49.36
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	1.40 CY N/A	0	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03142 5650 > Forms in place, columns, plywood, 12" x 12", 4 use	662.00 SF ACARC1		28.13	0.14	2.57	0.00	0.57	0.00	3.14	3.14
TOTAL Center Columns	1.00 EA		į	107	1,949	31	641	0	2,621	2620.87
TOTAL Intake	1.00 EA		2	2,156	42,737	2,446	117,045	0	162,227	162,227 162227.40
TOTAL Intake	1.00 EA		2	2,156	42,737	2,446	117,045	0	162,227	162,227 162227.40
05.04.03.04. Stilling Basin										
05.04.03.04.01. Stilling Basin Parabolic Transition										
05.04.03.04.01.01. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	5.79 TON SIWRRODM4		1	10.67	278.93	0.00	963.00 5,576	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	75.80 CY N/A	0	0.00	0.00	0.00	0.00	126.26	0.00	126.26 9,571	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	75.80 CY CLABC20		13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	1820.00 SF ACMAG	ACMACEFI1 67	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	2730.00 SF ACARC2		54.38	301	2.08	0.00	0.81	0.00	2.90	2.90

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RDS: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.04. Gate S8	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
TOTAL Walls	1.00 EA		434	8,589	471	17,425	0	26, 485	26484.67
05.04.03.04.01.02. Base Slab									
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	47.60 CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	179.00 SF ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	3.64 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	47.60 CY N/A	00.00	0.00	0.00	0.00	126.26 6,010	0.00	126.26 6,010	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	858.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	858.00 SF ACMACEFI1	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	858.00 SF ACMACEFI1	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		109	2,350	17	9,665	0	12,032	12031.81
05.04.03.04.01.03. Shear Key									
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.28 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	4.00 CY N/A	0.00	0.00	0.00	0.00	126.26 505	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	4.00 CY CLABC20	13,75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	98.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Shear Key	1.00 EA		16	322	25	854	0	1,202	1201.60

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05, Main Outlet Structure

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05.04. Gate S8		QUANTY UOM CREW	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT
05.04.03.04.01.04. Top Slab	04. Top Slab										
AF AA <03150 7101 >	AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nign, 4 use	37.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	
CIV AA <03150 1500 > Forms in place, el plate plywd 15'-20	Forms in place, elev slab, flat plate plywd 15'-20' high 4 use	37.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	00.00	2.98	2,98
MIL AA <03396 0010 >	<pre><03396 0010 > Finishing floors, monolithic, screed finish</pre>	858.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	00.00	0.17	
AF AA <03372 1600 >	<pre><03372 1600 > Placing conc, elev slabs, over 10" thick, pumped</pre>	40.00 CY	CLABC20	22.50	0.36	6.12	3.80 152	0.00	0.00	9.91 396	9.91
M RSM AA <03326 0300 > Concrete ready mix, weight, 4000 psi	· Concrete ready mix, regular weight, 4000 psi	40.00 CY	N/A	00.00	00.00	0.00	00.0	126.26	00.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in pla grade, #3 to #7	Reinforcing in place, slab on grade, #3 to #7	3.03 TON	N SIWRRODM4	0.29	13.89	363.20 1,100	0.00	963.00 2,918	0.00	1326.20	1326.20
IOTAL	TOTAL Top Slab	1.00 EA		•	71	1,623	152	8,025	0	008'6	9799.80
TOTAL	TOTAL Stilling Basin Parabolic	1.00 EA			630	12,884	665	35,969	0	49,518	49517.89
05.04.03.04.02. St	05.04.03.04.02. Stilling Hydraulic Jump Basin										
05.04.03.04.02.01. Walls	2.01. Walls										
M MIL AA <03217 0700 > Reinforcing in pla to #7	Reinforcing in place, walls, #3 to #7	7.40 TON	N SIWRRODM4	0.38	10.67	278.93	0.00	963.00 7,126	0.00	1241.93 9,190	1241.93
M RSM AA <03326 0300 >	<pre><03326 0300 > Concrete ready mix, regular weight, 4000 psi</pre>	97.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26 12,247	126.26
MIL AA <03372 5100 > Placing conc, wall pumped	• Placing conc, walls, 12" thick, pumped	97.00 CY	CLABC20	13.75	0.58	10.01 971	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, b patch voids	Finishing walls, break ties & patch voids	2322.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 >	MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	3564.00 SF	ACARC2	54.38	393	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL	TOTAL Walls	1.00 EA			563	11.134	602	22.346		000 16	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

30% Submittal 05. Main Outlet Structure

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4.28 2.49 126.26 0.17 0.22 126.26 16.22 2.90 TOTAL COST UNIT COST 1326.20 21736.67 1241.93 1201.60 1241.93 126.26 1241.93 373 126.26 1326.20 8,899 126.26 0.17 21,737 126.26 505 16.22 65 2.90 1,202 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 00.0 963.00 963.00 270 126.26 505 0.81 963.00 289 126.26 EQUIPMNT MATERIAL 126.26 0.00 0.00 0.00 0.00 854 17,857 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 32 25 LABOR 1.65 363.20 0.00 0.17 0.22 0.25 3,848 278.93 0.00 2.08 278.93 0.00 10.01 322 0.01 0.09 13.89 00.0 0.01 0.00 0.11 0.00 0.01 176 10.67 0.58 16 10.67 OUTPUT MANHRS 43.75 0.29 0.00 00.0 13.75 0.00 0.38 54.38 0.38 20.63 112.50 90.63 78.75 790.00 SF ACMACEFI1 0.28 TON SIWRRODM4 6.71 TON SIWRRODM4 ACMACEF11 0.30 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID CLABC20 ULABC6 98.00 SF ACARC2 ACARC1 N/A N/A 0.40 CY N/A 88.00 CY 341.00 SF 88.00 CY 790.00 SF 790.00 SF 4.00 CY 4.00 CY 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 05.04.03.04.02.04. Chute Blocks 05.04.03.04.02.02. Base Slab 05.04.03.04.02.03. Shear Key TOTAL Base Slab TOTAL Shear Key padwnd 05.04. Gate S8

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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05. Main Outlet Structure

2.90 0.32 16.22 2.90 126.26 16.22 0.32 16.22 526.12 1241.93 565.04 126.26 1241.93 OTHER TOTAL COST UNIT COST 1241.93 16.22 2.90 526 126.26 139 16.22 18 0.32 565 16.22 126.26 379 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 963.00 126.26 0.00 0.81 0.03 126.26 379 963.00 0.03 0.81 0.03 LABOR EQUIPMNT MATERIAL 365 297 6.21 0.00 0.00 0.00 0.00 6.21 00.0 0.00 0.00 6.21 0.00 0.00 7 10.01 2.08 278.93 10.01 11 0.29 2.08 10.01 0.00 278.93 0.29 00.0 159 261 0.58 0.01 0.58 00.0 10.67 0.11 10.67 0.00 0.58 0.01 0.11 0.01 14 MANHRS OUTPUT 0.38 0.00 13.75 67.50 13.75 00.0 13.75 67.50 54.38 54.38 67.50 0.20 TON SIWRRODM4 ACMACEF 11 0.08 TON SIWRRODM4 ACMACEF11 131.00 SF ACMACEFI1 ü CLABC20 CLABC20 1.10 CY CLABC20 96.00 SF ACARC2 ACARC2 QUANTY UOM CREW N/A N/A 0.40 CY 30.00 SF 96.00 SF 30.00 SF 1.10 CY 3.00 CY 3.00 CY 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & MIL AA <03398 0010 > Finishing walls, break ties patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 05.04.03.04.02.05. Baffle Blocks TOTAL Baffle Blocks TOTAL Chute Blocks 05.04.03.04.02.06. End Sill patch voids 05.04. Gate S8

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES; C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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			************			****
05.04. Gate S8	QUANTY UOM CREW ID	OUTPUT MANHRS	LABOR EQUIPMNT	MATERIAL	OTHER TOT	OTHER TOTAL COST UNIT COST

4. Gate S8	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	131.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL End Sill	1.00 EA	•	20	397	19	682	0	1,097	1097.42
05.04.03.04.02.07. Bridge Slab									
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nigh, 4 use	31.00 SF ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nigh 4 use	588.00 SF ACARC2	61.88	0.10	1.83	0.00	1.14 673	0.00	2.98	2.98
MIL AA <03396 0010 > Finisning floors, monolithic, screed finish	649.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0,00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	27.00 CY CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	27.00 CY N/A	00.0	0.00	0.00	00.0	126.26 3,409	0.00	126.26 3,409	126.26
M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7	2.08 TON SIWRRODM4	0.29	13.89	363.20 755	0.00	963.00	00.00	1326.20	1326.20
TOTAL Bridge Slab	1.00 EA	•	104	2,161	102	6,098	0	8,361	8361.18
05.04.03.04.02.08. Bridge Slab Sills									
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nigh, 4 use	49.00 SF ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	25.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	2.00 CY CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	2.00 CY N/A	00.00	0.00	0.00	00.00	126.26 253	0.00	126.26 253	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.12 TON SIWRRODM4	0.29	13.89	363.20 44	0.00	963.00 116	0.00	1326.20	1326.20
TOTAL Bridge Slab Sills	1.00 EA	I	7	141	ω	387	0	536	536.12

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure PROJECT C43RES:

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33.37 1.93 41.37 30.76 TOTAL COST UNIT COST 68106.42 117,624 117624.31 549,246 549245.89 35093.79 33083.79 47114.83 2838.86 788655.71 4787.43 7773.84 65322.24 33083.79 65322.24 130,644 47114.83 471,148 68,106 35,094 2838.86 788,656 33.37 9,443 41.37 30.76 9,106 6543.09 1.93 2,191 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 10 0 22256.00 89,024 31565.00 63,130 24610.00 246,100 25.96 10.70 3,167 1605.00 25,680 2140.00 2,543 3745.00 17,798 EQUIPMNT MATERIAL 84,856 407,553 1.38 24.71 14,008 22,919 48,887 427,101 1912.82 7,651 5963.49 11,927 797 1,461 3975.66 0.00 0.00 7,690 4.02 0.15 6.14 5.06 00.0 4,784 60,834 LABOR 27793.75 31,307 3.39 0.41 10.53 8914.98 35,660 18529.16 185,292 15.00 1233.86 1889.48 2,245 2798.09 13,298 7,391 18,423 134,003 300,721 313.73 1,537 6,658 0.09 0.02 0.51 150.94 470.59 0.26 24.10 386 5,143 36.90 54.64 907 MANHRS 0.03 27.36 OUTPUT 54.38 9.75 0.05 0.02 0.08 0.03 0.02 150.00 EELEELEC2 1.00 EA EELEELEC1 EELEELEC1 COFGB36C QUANTY UOM CREW ID CODEB3A SIWSE21 SIWSE21 SIWSE21 ULABA2 SIWSE2 283.00 CY 10.00 EA 1133.00 SY 567.00 CY 4.00 EA 2.00 EA 296.00 LF 16.00 EA 4.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA USR EL <16119 0002 > Actuator Starter & Remote Cntrls Base course, crushed stone, 3/4" max size, compacted, 3"D, large areas CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 = $1/4\ \rm CY$ TOTAL Stilling Hydraulic Jump Basin USR AA <15911 0262 > Motorized Gate Operator CI CI SSI USR AA <05150 0001 > Sluice Gate 5' \times 6' USR AA <05150 0001 > Sluice Gate 8' x 6' USR AA <05150 0001 > Slide Gate 8' x 6' TOTAL Stilling Basin USR EL <16119 0001 > RTU\MOSCAD USR AA <05120 0001 > Gate Stem TOTAL Concrete TOTAL Rip Rap TOTAL Gates MIL AA <02244 1510 > 05.04.11. Electrical 05.04.04. Rip Rap 05.04.05. Gates 05.04. Gate S8

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.04. Gate S8		QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
											1
	USR EL <16119 0002 > Actuator Starter & Remote Cntrl for Intake structure	12.00 EA	EELEELECI	0.02	55.56 667	2844.72 40,558	0.00	4815.00 68,648	0.00	7659.72 109,206	9100.52
	USR EL <16820 3580 > Stilling well w/Remote Controls	1.00 EA	EELER19	0.01	192.31	9885.58 11,745	0.00	10700.00	0.00	20585.58 24,458	24457.72
	USR EL <16820 3580 > High Head Stilling well w/Remote Controls	1.00 EA	EELER19	0.01	378.79 379	19471.59 23,134	0.00	21400.00	0.00	40871.59	48559.54
	USR EL <16711 0011 > Meter Connection by Utility	1.00 LS		00.00	0.00	0.00	0.00	0.00	700.00	700.00	831.67
	USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6	0.07 MLF	EELER18	0.55	00.9	165.56	0.00	363.80	0.00	529.36	628.93
	RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position	1.00 EA	BELEELEC1	0.40	2.50	128.01 152	00.0	29.48	0.00	157.49	187.12
	AF EL <16622 5230 > HID fxtr, floodlight, 250W high press sodium lamp, encl, heavy duty	13.00 EA	EELER19	69.0	3.63	186.79	0.00	391.89 6,053	0.00	578.68 8,938	687.53
	USR EL <16611 4100 > Compact Fluorescent	7.00 EA	EELER19	1.00	2.50	128.51	0.00	181.90	0.00	310.41 2,582	368.80
	USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, otagonal, conc	10.00 EA	EELER15	09.0	10.00	499.44 5,934	85.16 1,012	214.00	0.00	798,59	948.81
	MIL EL <16617 1040 > Lighting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, tapered	10.00 EA	EELER15	0.82	7.33	365.89 4,347	62.38	903.35 10,733	0.00	1331.62	1582.10
	USR EL <16617 0002 > Lignting, poles, wood, 20' NOTE: Use for Meter Pole	1.00 EA	EELER15	3.00	2.00	99.89	17.03	460.10	0.00	577.02 686	685.56
	MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 poie NEMA 1	1.00 EA	EELEELEC1	0.21	4.85	248.57 295	0.00	514.97 612	0.00	763.54	907.16
	USR EL <16181 0105 > Ground Rod $3/4" \times 20'$ Long amp, enclosed 600 volt, 3 pole	13.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75 2,066	0.00	236.16	280.58
	MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main lugs, 100A, lph, 3 wire, 120/240V NOTE: Use for Panel L	1.00 EA	EELEELECI	0.12	8.47	433.94	0.00	332.77 395	0.00	766.71	910.93
	USR EL <16323 G001 > Nema 4X Stainless steel enci NOTE: Use for Lighting Controller	1.00 EA	EELEELEC1	0.42	2.40	122.79 146	0.00	802.50 953	0.00	925.29 1,099	1099.34

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.04. Gate S8		QUANTY UOM CREW	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
			1								1
	USR EL <16333 1401 > Photo-cell	1.00 EA	EELER19	1.88	1.33	68.30	0.00	128.40 153	0.00	196.70 234	233.70
	USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting controller	1.00 EA	ULABC6	0.75	8.00	107.95	9.87	107.00	0.00	224.82 267	267.11
	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	1430.00 LF	COETR23	33.25	0.11	4.64	4.30	0.00	0.00	8.93 15,179	10.61
	MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12	0.22 MLF	· BELEELEC1	0.14	7.25	371.05 95	0.00	69.02	0.00	440.07	522.84
	MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10	3.24 MLF	r BELEELEC1	0.13	8.00	409.64	0.00	105.93	0.00	515.57	612.55
	MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6	1.55 MLF	PELEELEC1	0.08	12.35	632.16	00.0	293.72	0.00	925.88	1100.03
	MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0	0.08 MLF	PELEELEC1	0.04	24.39	1248.90	00.00	1049.67	0.00	2298.57	2730.93
	MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex	1.00 EA	EELEELEC1	3,38	0.30	15.17	0.00	32.53	0.00	47.70	56.67
	USR EL <16153 0014 > Cable Termination #12	50.00 EA	EELER19	31.25	0.08	4.11	0.00	0.27	0.00	4.38	5.20
	USR EL <16153 0013 > Cable Termination #10	90.00 EA	EELER19	27.78	0.09	4.63	0.00	0.54	0.00	5.16 552	6.13
	USR EL <16153 0012 > Cable Termination #6	8.00 EA	EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0010 > Cable Termination #1/0	12.00 EA	EELER19	16.67	0.15	7.71	0.00	3.21	0.00	10.92 156	12.97
	MIL EL <16711 0500 > Elec & tel sitewk, 2'x2'x2'-6" D, hand holes, precast conc, W/conc cov	1.00 EA	EELER3	0.31	7.99	415,55 494	65.02	321.00 381	00.00	801.57 952	952.34
	MIL EL <16333 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2	2.00 EA	EELEELEC1	0.41	2.42	123.98	0.00	269.11 639	0.00	393.09 934	467.03
	MIL EL <16338 5510 > Safety switch, nvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R	1.00 EA	EELEELEC1	0.31	3.20	163.86 195	0.00	354.06 421	0.00	517.92 615	615.34

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOLA UPB ID: UPOLEA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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05.04. Gate S8		QUANTY UOM CREW ID		OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	TIT COST
	USR EL <16232 2483 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex WP	1.00 EA EE	EELEELEC1	2.89	0.35	17.70 21	0.00	53.50	0.00	71.20	84.59
	USR EL <16153 0011 > Cable Termination #4	6.00 EA EE	EELER19	20.83	0.12	6.17	0.00	1.12	0.00	7.29	8.66
	USR EL <16153 0012 > Cable Termination #6	14.00 EA EE	EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0013 > Cable Termination #8	22.00 EA EE	EELER19	27.78	0.09	4.63	0.00	0.80	0.00	5.43	6.45
	USR EL <16153 0014 > Cable Termination #12	478.00 EA EE	EELER19	31.25	0.08	4.11 2,335	0.00	0.27	0.00	4.38	5.20
	USR EL <16153 0016 > Cable Termination #16	54.00 EA EE	EELER19	31.25	0.08	4.11	0.00	0.16	0.00	4.27	5.08
	MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	254.00 LF EE	EELEELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv	1191.00 LF EE	EELEELEC1	11.63	0.09	4.406,233	0.00	2.18	0.00	6.59	7.83
	MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv	90.00 LF EE	BELEBLEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
	MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling	3200.00 LF EE	EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14 8,146	2.55
	MIL EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, w/coupling	1260.00 LF EE	BELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
	MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	75.00 LF EE	EELEELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16712 1050 > Conquit, direct burial only, PVC sched 40, 2" dia, w/coupling	530.00 LF EE	EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
	MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling	900.00 LF EE	EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
	MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, inci couplings only, steel rigid galv	20.00 LF EE	BELECT	10.00	0.10	5.12	0.00	3.49	0.00	8.61 205	10.23
	MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv	5.00 LF EE	EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
	MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling	70.00 LF EE	EELEELEC1	36.25	0.03	1.41	0.00	0.39	0.00	1.80	2.14
LABOR ID: C43RES	BQUIP ID: C43RES	Currency in DOLLARS	n DOLLARS					CREW 1	CREW ID: NAT01A	A UPB ID: UP01EA	01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

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Number Comparity, disperse partial entry, Prof. Comparity, disperse partial entry, Prof. Comparity, disperse partial entry, prof. Comparity, disperse partial entry, prof. Comparity, and com	05.04. Gate S8		QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
EL (1613) 0220 > Volte, type THMN-THMN, O.01 MLF ERLERECT D.15 6.14 314.14 0.00 44.19 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.13 18.14 0.00 557 0.00 13.86.14 18.14 18.14 0.00 557 0.00 13.86.14 18.14 18.14 0.00 557 0.00 13.86.14 18.14 18.14 0.00 557 0.00 13.86.14 18.14 18.14 0.00 13.86.14 0.00 13.86.14 18.14 18.14 0.00 13.86.14 18.14 18.14 0.00 13.86.14 0.00 13.86.14 18.14 18.14 0.00 13.86.14 18.14 18.14 18.14 0.00 13.86.14 18		al only, PVC coupling	1490.00 LF	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
EL -[6119] 1230 > Cable termi to 6000, #22-#10, and 12.00 EA ERLERED BY 1.24 1.35 4.01 0.00 5567 0.00 1.338				0.16	6.14	314.14	0.00	44.19	0.00	358.33	425.73
EL <16119 1230 > Wiley, 600 volt, type THRM-THRN, copper, stranded, #10 EL <16256 0100 > Fanelboardid ctr cxt brkr,10 - 2.00 EA ELLEELECI 1.25		CIV EL <16153 0320 > Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, and #10	EA	1.24	1.05	54.01 770	0.00	39.80	0.00	93,82 1,338	111.46
EL 416326 0100 > Panelboardid ctr ckt brkr,15 -		<16119 1250 > Wire, 600 volt, type copper, stranded, #10		0.13	8.00	409.64	0.00	105.93 702	0.00	515.57	612.55
EL <16326 0310 > Panelboardaid ctr ckt brkr,70 - 100 EA EELEELECI 1.00 EA 124 1241.33 0.00 20.33 0.00 175.48		<pre><16326 0100 > Panelboard&ld ctr ckt brkr,15 50A,bolt-on,10k AIC,1 P,120V</pre>	EA	1.25	0.80	40.96	0.00	10.70	0.00	51.66	61.38
EL <16325 4390 > Panelboard assem, 42-20A brkr, 1.00 EA EELEELECZ 0.08 24 1475 0.00 727.07 0.00 1968.40 2,339 2 2,339 2 2,339 1,300 2,340		<pre><16326 0310 > Panelboard&id ctr ckt brkr,70 100A,bolt-on,10k AIC,1 P,120v</pre>	EA	1.00	1.00	51.21	0.00	20.33	0.00	71.54	84.99
EL <16137 1700 > Safety switch, heavy duty, 600 Voit, type THWN-THHN, copper, stranded, 1/0		MIL EL <16325 4390 > Panelboard assem, 42-20A brkr, main lugs, 225A, lph, 3 wire, 120/240V	EA	0.08	24.24	1241.33	0.00	727.07 864	0.00	1968.40 2,339	2338.65
EL <16119 1500 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 1/0 16 Mir ELEELEC1 0.04 14 868 0.00 0.00 0.00 1730 0.00 1,598 EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #12 copper, stranded, #12 copper, stranded, #12 copper, stranded, #13 copper, stranded, #14 copper, stranded, #14 copper, stranded, #14 copper, stranded, #15 copper, stranded, #14 copper, stranded, #15 copper, stranded, #14 copper, stranded, #15		<pre><16337 1700 > Safety switch, heavy duty,</pre>	EA	0.24	4.20	215.15	0.00	293.18	0.00	508.33	603.94
EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 Copper, stranded, #6 Copper, stranded, #6 Copper, stranded, #6 Copper, stranded, #6 Copper, stranded, #6 Copper, stranded, #12 Copper, stranded, #12 Copper, stranded, #12 Copper, stranded, #12 Copper, stranded, #12 Copper, stranded, #12 Copper, stranded, #12 Copper, bare stranded, #14 Copper, bare stranded, #15 Copper, bare str		<16119 1600 > Wire, 600 volt, type copper, stranded, 1/0	MLF	0.04	24.39	1248,90 868	0.00	1049.67	0.00	2298.57	2730.93
EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12		<pre><16119 1350 > Wire, 600 volt, type copper, stranded, #6</pre>	MLF	0.08	12.35	632.16	0.00	293.72	0.00	925.88	1100.03
EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4 0.02 MLF EELER18 0.55 0.5 0 3 60.59 0.00 360.59 0.00 526.15 EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, 21.00 EA EELER19 1.94 27 1,654 0 488 0 2,443 EL <16213 2744 > Pull box, hinged, steel, NEWA 4, 1.00 EA EELEELEC1 0.63 2 97 0 00 69.57 0.00 180.57 EL <16213 0380 > Pull box, sheet metal, NEWA 1, 3.00 EA EELEELEC1 0.46 6 394 0 00 69.98 0.00 644		<16119 1200 > Wire, 600 volt, type copper, stranded, #12	MLF	0.14	7.25	371.05	0.00	69.02	0.00	440.07	522.84
4, 1.00 EA ELLELECT 0.63 2 16.31 0.00 19.57 0.00 85.88 2.143 2.100 EA ELLELECT 0.63 2 97 0.00 69.67 0.00 151.60 3.00 EA ELLELECT 0.46 6 394 0.00 69.98 0.00 69.48 0.00 69.49		EI	MLF	0.55	6.00	165.56	0.00	360.59	0.00	526.15	625.11
. NEMA 4, 1.00 EA EELEELECI 0.63 2 97 0.00 69.67 0.00 151.60 NEMA 1, 2.16 110.59 0.00 69.98 0.00 180.57 6"D 3.00 EA EELEELECI 0.46 6 394 0 249 0 644		MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, cadweld	EA	1.94	1.29	66.31 1,654	0.00	19.57 488	0.00	85.88 2,143	102.04
NEMA 1, 3.00 EA EELEELECT 0.46 6 394 0 249 0 644		<pre><16213 2744 > Pull box, hinged, steel, NEMA 12"W x 12"H x 6"D</pre>	EA	0.63	1.60	81.93	0.00	69.67	0.00	151.60	180.11
		MIL EL <16213 0380 > Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D	EA	0.46	2.16	110.59	0.00	69.98	0.00	180.57	214.54

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

05.04. Gate S8

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

05. Main Outlet Structure

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4.13 907.16 373.99 TOTAL COST UNIT COST 168.87 102.04 6295.07 615.03 675.49 233.70 187.12 1544.06 831.67 448.57 164.83 142.13 3.47 314.78 85.88 5298.43 6,295 517.66 2,460 1299.60 3,088 568.55 196.70 234 700.007 377.55 138.73 157.49 763.54 1,814 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 700.00 0.00 44.60 1.20 160.50 19.57 3210.00 354.06 871.23 2,070 363.73 128.40 EQUIPMNT MATERIAL 00.0 29.48 514.97 107.00 127 26.75 191 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 0 LABOR 97.53 2088.43 2.28 154.28 66.31 163.59 270.55 321 428.38 1,018 204.82 68.30 00.0 128.01 152 248.57 591 111.98 798 1.90 0.04 1.29 75.69 3.00 3.19 4.00 4.85 MANHRS 8.33 1.33 0.00 5.26 4.23 2.50 OUTPUT 22.50 0.83 1.94 0.04 0.30 1.88 0.59 0.53 0.31 0.25 0.00 0.40 0.48 0.21 EELEELEC1 EELEELEC1 EELEELEC1 **EELEELEC1 EELEELEC1** EELEELEC1 QUANTY UOM CREW ID EELER19 EELER19 EELER18 EELER19 1.00 EA EELER19 MSHMQ20 1.00 EA 1.00 EA 4.00 EA ΕĄ 555.00 LF 1.00 EA 1.00 EA 2.00 EA 1.00 EA 1.00 EA 1.00 EA 6.00 EA 1.00 LS 2.00 Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16313 9650 > Motor starter & cont, NEMA 1, size 1, comb, rev, w/disc switch MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6" CIV EL <16213 1710 > Cabinet, ninged, 36"W x 30"H x 12"D, sheet met, db1 dr, NEMA MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for RTU enclosure NOTE: Use for 2/0 cadweld USR EL <13810 0001 > Limit and Rotary Switches USR EL <16869 0090 > Lighting Contactor USR EL <13810 5471 > Surge Suppressor conduit, etc. USR EL <16333 1401 > Photo-cell MIL EL <16213 0330 > 0001 > 1050 USR EL <16000 <16712 MIL EL

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 137

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05.04. Gate S8	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
USR EL <13810 0002 > Push Button Stations	4.00 EA	MSHMQ20	0.63	4.00	105.93 503	0.00	53.50 254	0.00	159.43	189.42
USR EL <16153 0016 > Cable Termination #10	128.00 EA	EELER19	27.78	0.09	4.63	0.00	0.54	0.00	5.16	6.13
USR EL <16153 0014 > Cable Termination #14	12.00 EA	EELER19	31.25	0.08	4.11	0.00	0.21	0.00	4.33	5.14
AF EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex	4.00 EA	EELELEC1	3,38	0.30	15.17	0.00	30.82	0.00	45.99	54.64
MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST	2.00 EA	EELEELEC1	1.38	0.73	37.24	0.00	9.68	0.00	46.92	55.75
MIL EL <16617 3000 > Potes, area lighting, 10' tall, round, 3" OD, al, non-tapered	2.00 EA	EELER15	2.88	2.09	104.23	17.77	497.55	0.00	619.55	736.09
MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, tapered	2.00 EA	EELER15	68.0	6.76	337.46	57.54	371.08	0.00	766.07	910.17
USR EL <16617 3300 > Light Pole Foundation	4.00 EA	SELER15	0.75	8.00	399.55 1,899	68.12 324	246.10	0.00	713.77	848.03
USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole	7.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0	0.84 MLF	F EELER18	0.35	9.43	260.16 258	0.00	1134.20	0.00	1394.36	1656.64
USR EL <16865 0125 > Level Gage	1.00 EA	EELER19	0.16	16.13	829.11 985	0.00	535.00	0.00	1364.11	1620.70
MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8)	4.00 EA	BELBR22	3.25	1.43	67.39	0.00	65.16	0.00	132.55	157.49
USR EL <16611 0001 > Ltg fxtr, 175w Metal Halide (EH-1)	2.00 EA	EELEELEC2	0.72	2.76	141.33	0.00	454.75	0.00	596.08	708.21
NOTE: Use for fixture type B										
B USR EL <16622 3010 > Ltg fxtr, 175w Metal Halide (EH1) NOTE: Use for fixture type C	2.00 EA	EELEELEC2	0.72	2.76	141.33 336	0.00	454.75	0.00	596.08 1,416	708.21
MIL EL <16622 3060 > Ltg, HID fxtr,250W security, ext wall NOIE: Use for type D (250w Metal	4.00 EA	EELER19	1.08	2.33	119.55 568	0.00	322.07	00.00	441.62	524.68

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 138

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05.04. Gate S8		QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST (COST UNIT COST
	Halide EH9)										
	MIL EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent m.n. flood NOTE: Use for type E (E12)	8.00 EA	EELER22	2.88	1.62	76.18 724	0.00	151.62	00.00	227.80	270.65
	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	3320.00 LF	COETR23	33.25	0.11	4.64	4.30	00.0	0.00	8.93	10.61
	MIL EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4	0.03 MLF	BELEELEC1	0.07	15.15	775.83	00.00	448.33	0.00	1224.16	1454.43
	MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8	0.80 MLF	· EELEELEC1	0.10	10.00	512.05	00.00	182.44	0.00	694.48	825.12
	USR EL <16119 0990 > Wire, 600 volt, type IHWN-IHHN, #16	0.16 MLF	* BELEELEC1	0.17	5.75	294.28	00.0	42.80	0.00	337.08	400.49
	USR EL <16153 0010 > Cable Termination #1/0	30.00 EA	EELER19	16.67	0.15	7.71 275	00.00	3.21	0.00	10.92	12.97
	USR EL <16513 2015 > Emergency Generator 35 KW	1.00 EA	EELER3	0.04	55.93	2909.80 3,457	455.26 541	19260.00 22,883	0.00	22625.06 26,881	26880.83
	MIL EL <16511 1340 > Automatic transfer switch, 225 amp, enclosed 600 voit, 3 pole	1.00 EA	EELEELEC2	0.25	8.00	409.64	0.00	4892.04 5,812	0.00	5301.68 6,299	6298.93
	USR EL <16323 0001 > Terminal Box	1.00 EA	EELEELEC1	0.42	2.40	122.79	0.00	802.50	0.00	925.29 1,099	1099.34
	TOTAL Electrical	1.00 EA		1	3,425	199, 299	27,157	223,801	1, 663	451,920	451920.16
0.50	05.04.15. Equipment Building										
	USR AA <03450 0001 > Precast Concrete Building Note: Note: Material price from Concrete Modular Systems 727-945-1756 AIIN: Frederick Kennedy	1.00 EA	SIWSE7A	90.0	130.08	7180.22 7,180	1676.22	41730.00	0.00	50586.44 50,586	50586.44
	MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use	68.00 LF	ACARC1	75.00	0.05	0.96	0.00	0.51	0.00	1.48	1.48
	MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.20 TON	1 SIWRRODM4	0.29	13.89	363.20	0.00	727.60	0.00	1090.80	1090.80
	M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi	5.00 CY	N/A	0.00	0.00	0.00	0.00	126,26 631	0.00	126.26 631	126.26

CREW ID: NATOIA UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 139

TIME 09:25:13

05.04. Gate S8			QUANTY UOM CREW ID	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
	0000					,						
MIL A.	4 <033/2 4400	Mir AA <033/2 440U > Flacing conc, slab on grade, 6" thick, w/crane & bucket	5.00 CY	ULABC7	13.75	0.58	10.01	7.94	00.0	0.00	17.95	17.95
MIL A	A <03396 0010	MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	264.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	00.0	00.00	0.17	0.17
MIL A.	A <03396 0100	MIL AA <03396 0100 > Finishing floors, monolithic, float finish	264.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	00.00	0.22	0.22
MIL A.	MIL AA <03396 0150 >	> Finishing floors, monolithic, broom finish	264.00 SF	ACMACEF11	84.38	0.01	0.23	0.00	0.00	00.00	0.23	0.23
MIL A	MIL AA <02215 2460 >	> Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building	5.00 CY	CODFB10N	47.50	0.03	1.07	0.77	16.26 81	0.00	18.10	18.10
	TOTA	TOTAL Equipment Building	1.00 JB		r	148	7,537	1,720	42, 623	0	51,880	51880.06
05.04.90. M.	05.04.90. Miscellaneous											
MIL A.	A <03198 1050	MIL AA <03198 1050 > Waterstop, PVC, dumbbell, 9" wide, 3/8" thick, center bulb	480.00 LF	ACARCARP1	16.25	0.06	1.23	0.00	6.26	0.00	7.49	7.49
USR A.	USR AA <15115 0571	> Wall Thimble Type F	4.00 EA	MPLUPLUM1	0.30	3.33	136.01 544	0.00	321.00	0.00	457.01	457.01
M MIL A.	A <05542 0622	M MIL AA <05542 0622 > Heavy Duty Steel Grating	1751.00 SF	SIWSE4	75.00	0.05	3.32	0.13	9.10 15,925	0.00	12.54 21,965	12.54
B RSM A	RSM AA <05130 0450 > W8	X 31 I Beam	1240.00 LB	SIWSE3	78.18	0.04	2.00	0.15	0.91	0.00	3,05	3.05
MIL A	A <02752 3920	MIL AA <02752 3920 > Maintenance Ladder Rungs	135.00 EA	AMABBRIC1	5.00	0.20	4.49	0.00	13.91	0.00	18,40	18.40
B RSM AA	A <05130 0450	<05130 0450 > Maintenance Ladder Posts	10.00 EA	SIWSE3	1.30	2.30	119.95	8.76 88	321.00 3,210	0.00	449.71	449.71
B MIL AA	A <05518 0010	<05518 0010 > Maintenance Ladder Safety Cage	76.00 VLF	SIWSE4	13.12	0.30	19.00	0.72	36.38	0.00	56.10 4,263	56.10
B MIL A	a <05523 0530	B MIL AA <05523 0530 > 2 1/2" Dia Steel railing 42" High	162.00 LF	SIWSE4	16.61	0.24	15.00	0.57	27.82	0.00	43.39	43.39
B MIL A	A <15155 1970	B MIL AA <15155 1970 > Pipe PVC sched 40 no coupling/hanger 8" dia	54.00 LF	MPLUQ2	3.41	0.88	34.03 1,838	0.00	10.70 578	0.00	44.73	44.73

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Atmy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

DETAIL PAGE 140

TIME 09:25:13

05.04. Gate S8	QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
	; ; ; ; ; ;	, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 					1		
RSM AA <05130 0450 > Trash Strut Steel	2042.00 LB	SIWSE3	33.13	0.09	4.72	0.34	0.40	0.00	5.46	5.46
B RSM AA <05130 0450 > 10' Dewatering Needle Beam	2.00 EA	SIWSE3	0.07	44.78	2332.74	170.43	3210.00 6,420	00.0	5713.17 11,426	5713.17
B RSM AA <05130 0450 > Needle Beam Buldhead	2.00 EA	SIWSE3	0.34	8.95	466.13 932	34.06	535.00 1,070	00.0	1035.19	1035.19
TOTAL Miscellaneous	1.00 EA			636	32,185	1,748	42,577	0	76,510	76510.24
05.04.95. Controls										
USR MC <15743 0001 > Dewatering Gate IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 1,073	00.00	1056.00	1323.70
USR MC <15743 0001 > Upper Level Gate IO Points	1.00 EA	N/A	00.00	00.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Middle Level Gate IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Upstream Downstream Level IO Points	1.00 EA	N/A	00.0	0.00	200.00	0.00	856.00 1,073	0.00	1056.00	1323.70
USR MC <15743 0001 > Downstream Sampler IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 1,073	00.00	1056.00	1323.70
USR MC <15743 0001 > Emergency Generator IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 1,073	0.00	1056.00	1323.70
USR MC <15743 0001 > Telemetry To/From Gated Structure	1.00 EA	N/A	00.00	0.00	100.00	0.00	535.00 671	0.00	635.00 796	795.97
USR MC <15743 0001 > 16 VHF Data Radios Structure	1.00 EA	N/A	0.00	0.00	300.00 376	0.00	1605.00	0.00	1905.00	2387.92
AF MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher	16000 LF	CODBB54	90.63	0.01	0.47	0.13	0.00	0.00	0.60	0.75
USR MC <15743 0001 > Control Conduit & Cable	16000 LF	EELER18	30.35	0.11	3.00	0.00	4.28	0.00	7.28	9.13
TOTAL Controls	1.00 EA			1,915	71,610	2,617	94,960	0	169, 187	169,187 169187.40
TOTAL Gate S8	1.00 EA		,	18,296	754,273	107,279	107,279 1,268,744	1,663	2,131,961	2131961

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
05. Main Outlet Structure

OTHER TOTAL COST UNIT COST LABOR EQUIPMNT MATERIAL OUTPUT MANHRS QUANTY UOM CREW ID 05.04. Gate S8 35,484 1,462,524 212,904 2,490,973 3,327 4,169,728 4169728

EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

TOTAL Main Outlet Structure

1.00 EA

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LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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06.01. Gate S12	QUANTY UOM CREW ID		OUTPUT MA	MANHRS	LABOR E	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
06. Balancing Structure 06.01. Gate S12							,			
06.01.03. Concrete										
06.01.03.01. Conduits										
06.01.03.01.10. Typical Conduit										
06.01.03.01.10.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	372.00 CY ULABC6		20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	673.00 SF ACARC1		43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	18.61 TON SIWR	SIWRRODM4	0.29	13.89	363.20 6,759	0.00	963.00 17,921	0.00	1326.20 24,681	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	372,00 CY N/A		00.00	0.00	0.00	0.00	126.26 46,969	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	4380.00 SF ACMA	ACMACEFI1 11	112.50	0.01	0.17 759	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	4380.00 SF ACMA	ACMACEFI1 9	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	4380.00 SF ACMA	ACMACEF11 7	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab			1	571	12,116	133	65, 452	0	77,701	
06.01.03.01.10.02. Center Haunch										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	27.00 CY ULABC6		20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	292.00 SF ACARC1		43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Rainforcing in place, slab on grade, #3 to #7	1.35 TON SIWRRODM4	RODM4	0.29	13.89	363.20 490	0.00	963.00 1,300	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	27.00 CY N/A		00.00	0.00	0.00	0.00	126.26 3,409	0.00	126.26 3,409	126.26
TOTAL Center Haunch			1	53	1,078	10	4,953	0	6,041	

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES; C43 West Storage Reservoir - South Florida Water Management 30% Submittal

06. Balancing Structure

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2.05 2.98 0.17 16.22 0.32 2.90 9.91 OTHER TOTAL COST UNIT COST 126.26 1326.20 126.26 2.90 239, 939 2.98 0.17 9.91 126.26 49,115 1241.93 12,109 126.26 24,621 16.22 3,163 0.32 62,093 25,848 94,104 1326.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 0 0 0 1.14 0.00 126.26 49,115 126.26 24,621 00.0 73,187 963.00 9,389 00.0 0.03 0.81 183,528 EQUIPMNT MATERIAL 39,936 963.00 18,769 0.00 0.00 0.00 0.00 0.00 0.00 3.80 0.00 1,476 6.21 0.00 1,211 2,831 LABOR 1.83 0.17 6.12 0.00 363.20 278.93 00.0 10.01 0.29 2.08 53,581 20,945 19,441 0.10 0.00 0.58 0.09 0.01 0.36 13.89 10.67 00.0 0.01 0.11 1,076 2,640 MANHRS 939 54.38 OUTPUT 43.75 61.88 22.50 00.0 0.29 0.38 0.00 13.75 67.50 112.50 4380.00 SF ACMACEF11 19.49 TON SIWRRODM4 9.75 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID CLABC20 195.00 CY CLABC20 7080.00 SF ACARC2 4380.00 SF ACARC2 728.00 SF ACARC1 N/A 195.00 CY N/A 389.00 CY 389.00 CY 5256.00 SF MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nigh, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, AA <03372 1600 > Placing conc, elev slabs, over M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03398 0010 > Finishing walls, break ties & MIL AA <03396 0010 > Finishing floors, monolithic, screed finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 10" thick, pumped TOTAL Typical Conduit 06.01.03.01.10.03. Top Slab patch voids 06.01.03.01.10.04. Walls TOTAL Top Slab plywood TOTAL Walls AF AF 06.01. Gate S12

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOIA UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

06. Balancing Structure

DETAIL PAGE 144

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4.28 2.49 0.17 0.22 0.25 2.05 2.98 0.17 9.91 TOTAL COST UNIT COST 1326.20 126.26 2.49 1326.20 0.17 0.25 2.05 2.98 9.91 126.26 18,308 225 29,611 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 00.0 0 963.00 6,972 126.26 0.00 0.00 00.0 1.14 00.0 0.00 LABOR EQUIPMNT MATERIAL 25,454 0.00 0.00 0.00 3.80 0.00 0.00 0.00 0.00 0.00 1.65 345 363.20 2,630 0.17 0.22 0.25 1.83 0.17 6.12 00.0 4,105 0.10 0.36 0.09 13.89 0.00 0.01 0.01 10 0.01 0.09 0.01 MANHRS 191 OUTPUT 20.63 43.75 0.29 00.0 90.63 78.75 43.75 22.50 112.50 61.88 112.50 7.24 TON SIWRRODM4 882.00 SF ACMACEFI1 882.00 SF ACMACEFI1 ACMACEF11 ACMACEF 11 QUANTY UOM CREW ID CLABC20 145.00 CY ULABC6 513.00 SF ACARC1 ACARC2 209.00 SF ACARC1 145.00 CY N/A 1296.00 SF 121.00 CY 882.00 SF 513.00 SF MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat place plywd 15'-20' nign 4 use AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped ő MIL AA <03396 0010 > Finishing floors, monolithic, screed finish monolithic, MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 MIL AA <03396 0100 > Finishing floors, 06.01.03.01.15. Conduit at Gatewell 06.01.03.01.15.01. Base Slab float finish 06.01.03.01.15.02. Top Slab TOTAL Base Slab AF AF 06.01. Gate S12

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOIA UPB ID: UPO1EA

126.26

126.26 15,277

0.00

126.26 15,277

00.0

0.00

0.00

0.00

N/A

121.00 CY

1326.20

1326.20

0.00

963.00

0.00

363.20 2,183 4,934

13.89

0.29

6.01 TON SIWRRODM4

M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7

TOTAL Top Slab

M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi

27,249

0

459

235

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 06. Balancing Structure PROJECT C43RES:

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2.90 0.32 2.90 16.22 0.32 16.22 TOTAL COST UNIT COST 1241.93 126.26 332,475 332474.88 1241.93 126.26 1241.93 8,135 2.90 1241.93 8,992 0.32 2.90 126.26 18,308 16.22 2,352 35,676 92,536 126.26 13,889 16.22 1,784 635 36,395 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 0 0.03 963.00 126.26 18,308 0.03 0.81 963.00 126.26 13,889 0.00 0.81 LABOR EQUIPMNT MATERIAL 0.00 257,725 23,614 26,887 74,197 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 1,412 4,242 6.21 683 901 278.93 10.01 i,451 0.29 2.08 7,888 278.93 1,827 0.29 2.08 0.00 70,508 0.00 10.01 12,097 16,927 10.67 10.67 0.00 0.58 0.01 $0.11 \\ 212$ 395 3,460 0.00 0.58 0.01 0.11 618 MANHRS 820 00.0 13.75 67.50 54.38 0.38 00.0 13,75 67.50 54.38 OUTPUT 0.38 7.24 TON SIWRRODM4 1440.00 SF ACMACEFI1 6.55 TON SIWRRODM4 ACMACEF11 110.00 CY CLABC20 QUANTY UOM CREW ID 145.00 CY CLABC20 1920.00 SF ACARC2 4125.00 SF ACARC2 N/A 145.00 CY N/A 110.00 CY 1980.00 SF 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 06.01.03.02.10.01. Walls (I to Flow) TOTAL Conduit at Gatewell TOTAL Walls (I to Flow) 06.01.03.01.15.03. Walls TOTAL Conduits plywood TOTAL Walls 06.01.03.02.10. Gatewell 06.01.03.02. Gatewell 06.01. Gate S12

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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06.01. Gate S12	QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	NIT COST
06.01.03.02.10.02. Walls (II to Flow)										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	3.64 TON	3.64 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	61.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	61.00 CY	CLABC20	13.75	0.58	10.01 611	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	1650.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	2200.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls (II to Flow)				341	6, 688	379	13,049	0	20,116	
06.01.03.02.10.03. Air Vent Castings										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.34 TON	0.34 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	6.00 CY	N/A	0.00	0.00	0.00	0.00	126.26 758	0.00	126.26 758	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	6.00 CY	CLABC20	13.75	0.58	10.01	6.21	00.0	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	358.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	358.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Air Vent Castings				52	1,004	37	1,388	0	2,429	
TOTAL Gatewell				1,011	19, 789	1,099	38,051	0	58,939	
TOTAL Gatewell				1,011	19,789	1,099	38,051	0	58,939	

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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06.01.03.04. Stilling Basin 1									
06.01.03.04.01. Stilling Basin Parabolic Transition									
06.01.03.04.01.01. Walls									
M MIL AA <03217 0700 > Reinforcing in place, walls, to #7	s, #3 4.17 TON SIWRRODM4	0.38	10.67	278.93 1,163	0.00	963.00 4,016	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	1. 64.00 CY N/A	00.00	00.00	0.00	0.00	126.26 8,081	0.00	126.26 8,081	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" pumped	12" thick, 64.00 CY CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties patch voids	is & 1728.00 SF ACMACEFIL	67.50	0.01	0.29	00.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, be to 8' nigh, 4 use, job bu plywood	below gr, built 2304.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls	1.00 EA		361	7,105	397	14,025	0	21,528	21527.67
06.01.03.04.01.02. Base Slab									
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	ie, 74.00 CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge wood, over 12", 4 use	edge forms, 219.00 SF ACARC1	43.75	0.09	1.65 362	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, sla $grade,\ 43$ to $\#7$	slab on 4.83 TON SIWRRODM4	0.29	13.89	363.20 1,754	0.00	963.00 4,651	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	1r 74.00 CY N/A	0.00	0.00	0.00	0.00	126.26 9,343	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	nic, 1221.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	nic, 1221.00 SF ACMACEFI1	1 90.63	0.01	0.22 263	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	nic, 1221.00 SF ACMACEFI1	1 78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		148	3, 183	27	14,177	0	17,387	17386.61

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Flörida Water Management 30% Submittal

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06. Balancing Structure

2.90 2.05 0.17 126.26 1241.93 126.26 16.22 2.98 9.91 1326.20 1241.93 TOTAL COST UNIT COST 1564.30 60272.25 1241.93 1241.93 9.91 126.26 9,470 1326.20 6,459 126.26 631 16.22 2.90 1,564 2,98 0.17 60,272 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 0.00 OTHER 0 963.00 963.00 126.26 631 0.00 0.81 1,085 1.14 0.00 126.26 9,470 963.00 15,194 EQUIPMNT MATERIAL 0.00 44,482 6.21 0.00 0.00 0.00 0.00 3.80 0.00 0.00 0.00 31 740 LABOR 0.00 278.93 0.00 10.01 2.08 1.83 0.17 6.12 363.20 4,315 278.93 510 448 15,050 0.01 0.36 0.00 13.89 10.67 20 10.67 0.00 0.58 0.11 0.09 0.10 23 738 MANHRS DUTPUT 0.00 43.75 00.00 0.29 0.38 0.38 13.75 54.38 22.50 61.88 112.50 4.87 TON SIWRRODM4 0.35 TON SIWRRODM4 ACMACEF 11 1.83 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 ACARC2 ACARC1 ACARC2 N/A N/A 5.00 CY 5.00 CY 144.00 SF 184.00 SF 840.00 SF 1416.00 SF 75.00 CY 75.00 CY 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nign, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nigh 4 use MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 06.01.03.04.02. Stilling Hydraulic Jump Basin TOTAL Stilling Basin Parabolic 06.01.03.04.02.01. Exterior Walls 06.01.03.04.01.03. Shear Key 06.01.03.04.01.04. Top Slab TOTAL Shear Key FOTAL Top Slab plywood ΑF AΕ 06.01. Gate S12

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOLA UPB ID: UPOLEA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
66. Balancing Structure

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Versite de la constant de la constan			- 1		- }	TAM TAMATHOR	MATERIAL	OTHER TOTA	TOTAL COST UNIT	COST
	0	QUANTY UOM CREW ID	OUTPUT MA	MANHRS	LABOK EQU	- 1			1	1
06.01. Gate \$12									30 301	
AA3326 NAND > Concrete ready mix,	ete ready mix, regular	4/N >2 00 00	0.00	00.00	0.00	00.0	126.26 3,535	0.00	3,535	126.26
M KSM AA ACSOLO COCO WEIGH		3		0.58	10.01	6.21	0.00	0.00	16.22 454	16.22
MIL AA <03372 5100 > Placing cont, wairs, pumped	•	28.00 CY CLABC20	13.73	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03398 0010 > Finishing walls, preak patch voids	ני	504.00 SF ACMACEFI1	67.50	, [2.08	0.00	0.81	0.00	2.90	2.90
MIL AA <03182 2150 > Forms in place, walls,	below gr, built	1035.00 SF ACARC2	54,38	114	2,157	0	842		111111111111111111111111111111111111111	
plywood	30d	1.00 EA	1	157	3,093	174	6,155	0	9,423	9422.70
TOIAL EXCELLOI MALLO	I TOT HOTTO									
06.01.03.04.02.02. Interior Short	Interior Short Walls			10.67	278.93	00.0	963.00	0.00	1241.93 261	1241.93
M MIL AA <03217 0700 > Reinforcing in place, Waits,		0.21 TON SIWRRODM4	1 0.38	7 6	60	0.00	126.26	0.00	126.26	126 26
M RSM AA <03326 0300 > Concrete ready mix,	Concrete ready mix, regular	3.20 CY N/A	0.00	0.00		0	404	0 0	16.22	2.021
7-1-U.X				0.58	10.01	6.21	00.0	0	52	16.22
MIL AA <03372 5100 > Placing conc, Walls, pumped	. 71	3.20 CY CLABC20	13.75	0.01	0.29	00.0	0.03	00.00	0.32	0.32
MIL AA <03398 0010 > Finishing walls, br	ishing walls, break ties &	144.00 SF ACMACEFI1	1 67.50	2	42	0	n	> ;		
pat.	patch voids Forms in place, walls, below gr,		54.38	0.11	2.08	0.00	0.81	0.00	417	2.90
MIL AA SUSISE 2130 to 8' high, 4 use, job	8' nigh, 4 use, job built				1	1 1 1 1 1 1 1 1	-			1180 18
ply TOTAL Int	plywood TOTAL Interior Short Walls	1.00 EA		22	432	20	728	0	1,180	
06.01.03.04.02.03. Base Slab	. Base Slab			0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03372 4600 > Pl.	MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	120.00 CY ULABC6	20.63	35	1.65	0.00	0.83	00.0	2.49	2.49
MII. AA <03170 3060 > Fo	Forms in place, SOG, edge forms,	, 396.00 SF ACARC1	43.75	36	654	0	331	o ·	r 60	
O.B	wood, over 12", 4 use		0 29	13.89	363.20	0.00	963.00 7,540	0.00	1326.20	1326.20
M MIL AA <03217 0600 > Ne	grade, #3 to #7	7.83 TON SIWKKODM4			0.00	0.00	126.26	0.00	126.26 15,151	126.26
M RSM AA <03326 0300 > Concrete ready mi weight, 4000 psi	Concrete ready mix, regular weight, 4000 psi	120.00 CY N/A	0.00		•	•			ARIOGII . OI . O	11001184
		00 4	on DOLLARS				CRE	CREW ID: NAT01A		OFUE

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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High An G1336 0100 > Finishing filters, monolithic, seed filters 100,00 gr Accedential 12.56 10 157 0.00 0.	06.01. Gate \$12	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
							 		; ; ; ; ;		! ! ! ! ! !
	MIL AA <03396 0010 > Finishing floors, monolithic, screed finish			112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
# 1.00 EA RCMACEFII				90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
# 342.00 SF ACHACEFII 67.50 0.01 0.29 0.00 0.03 0.00 0.32 0.32 0.05 0.32 0				78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
** 342.00 SF ACHACEFII 67.50	TOTAL Base Slab	1.00 EA			215	4,656	43	23,022	0	27,721	27720.55
CK, 35.00 CY CLABCZET1 67.50 0.01 0.29 0.00 0.00 116.22 110 0.00 0.00 116.22 110 0.00 0.00 0.00 116.22 110 0.00 0.00 0.00 0.00 0.00 0.00 0.											
# 35.00 CY CLABCZO 13.75 2.0 10.01 6.21 0.00 0.00 16.22 1.0	break ties	342.00 SF		67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
#3 2.26 TON STWRRODM4 0.38 10.67 278.93 0.00 963.00 0.00 126.26 2 4,419 12 124 19 12 124 19 12 12 12 10 12 12 12 12 12 12 12 12 12 12 12 12 12				13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
#3 2.26 TON SIWRRODM4 0.38 0.11 2.08 0.00 963.00 0.00 1241.93 124 988.00 SF ACARCZ 54.38 0.11 2.08 0.00 0.81 0.00 2.90 2.863 1.00 EA		35.00 CY		00.00	00.00	00.00	00.00	126.26	0.00	126.26	126.26
#3				0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
#3 0.04 TON SIWRRODM4 0.38 10.67 278.93 0.00 963.00 0.00 1241.93 124 6.60 CY N/A 0.00 0.01 0.29 0.00 0.00 126.26 0.00 126.26 6.50 CY CLABCZO 13.75 0.58 10.01 6.21 0.00 0.03 16.22 1.24 45.00 SF ACMACEFII 67.50 1 13 2.08 0.00 0.81 0.00 0.32 130	ls, below job built	988.00		54.38	0.11	2,08	0.00	0.81 803	0.00	2.90	2.90
#3 0.04 TON SIWRRODM4 0.38 10.67 278.93 0.00 963.00 0.00 1241.93 124 0.60 CY N/A 0.00 0.00 0.00 126.26 0.00 126.26 ck, 0.60 CY CLABCZO 13.75 0.8 10.01 6.21 0.00 0.03 16.22 45.00 SF ACMACEFI1 67.50 1 13 0.01 0.09 0.81 0.00 2.90	TOTAL End Wall & Toe Support	1.00 EA		•	159	3,139	217	7,410	0	10,766	10765.93
#3 0.04 TON SIWRRODM4 0.38 0.00 0.00 0.00 0.00 1241.93 124 O.60 CY N/A 0.00 0.00 0.00 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 124 CK, 0.60 CY CLABCZO 13.75 0.58 10.01 6.21 0.00 0.00 16.22 126 45.00 SF ACMACEFII 67.50 1 13 0.01 0.29 0.00 0.03 0.00 0.32 134 Fight, 45.00 SF ACMACEFII 67.50 54.38 5.94 0.00 0.03 0.00 0.81 0.00 0.31 0.00 136.2	06.01.03.04.02.05. Chute Blocks										
regular 0.60 CY N/A 0.00 0.00 0.00 126.26 0.00 126.26 12 12 12 12 12 12 12 12 12 12 12 12 12			N SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
12" thick, 0.60 CY CLABC20 13.75 0.66 6.21 0.000 0.00 16.22 10.01 e.21 0.00 0.00 16.22 10.01 e.21 0.00 0.00 0.00 16.22 10.01 0.29 0.00 0.03 0.00 0.32 14.38 below 9r, 45.00 SF ACARC2 54.38 5 94 0 37 0 37 0 130		0.60 CY		00.00	0.00	0.00	0.00	126.26 76	0.00	126.26 76	126.26
ask ties 4 45.00 SF ACMACEFI1 67.50 1 13 0.00 0.03 0.00 0.32 14 13 0 1 0 14 145.00 SF ACARCZ 54.38 5 94 0 37 0 130		09.0		13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
1s, below gr, 45.00 SF ACARC2 54.38 5 94 0 37 0 130	eak ties	45.00		67.50	0.01	0.29	00.00	0.03	0.00	0.32	0.32
	ls, job			54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 06. Balancing Structure PROJECT C43RES:

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0.32 0.32 2.90 279.99 1241.93 126.26 16.22 815.60 50184.94 110,457 110457.19 126.26 16.22 OTHER TOTAL COST UNIT COST 1241.93 5,179 16.22 0.32 126.26 202 0.32 126.26 2.90 280 16.22 2.90 50,185 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 0.00 0 00.0 963.00 96 126.26 202 0.81 963.00 4,016 126.26 8,081 0.00 0.03 00.0 0.03 37,888 LABOR EQUIPMNT MATERIAL 152 420 82,370 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 0.00 1,208 6.21 10 468 278.93 2.08 300 0.00 0.29 0.00 0.29 10.01 499 124 10.01 386 11,829 26,880 641 0.11 580 10.67 00.00 0.01 0.11 10.67 00.0 0.58 0.01 0.58 OUTPUT MANHRS 20 37 1,317 13.75 54.38 13.75 0.00 0.38 0.00 0.38 67.50 67.50 0.10 TON SIWRRODM4 ACMACEF11 4.17 TON SIWRRODM4 ACMACEF11 CLABC20 QUANTY UOM CREW ID 1.60 CY CLABC20 144.00 SF ACARC2 1.60 CY N/A 144.00 SF 64.00 CY 64.00 CY 1728.00 SF 1.00 EA 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to ${\rm \pm}7$ M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids TOTAL Stilling Hydraulic Jump Basin M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 06.01.03.05.01. Stilling Basin Parabolic Transition 06.01.03.04.02.06. Baffle Blocks TOTAL Stilling Basin 1 TOTAL Baffle Blocks TOTAL Chute Blocks 06.01.03.05.01.01. Walls plywood padund 06.01.03.05. Stilling Basin 2 06,01, Gate S12

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

54.38

ACARC2

2304.00 SF

2.90

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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06.01. Gate S12	QUANTY UOM CREW ID	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
TOTAL Walls	1.00 EA			361	7,105	397	14,025	0	21,528	21527.67
06.01.03.05.01.02. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	74.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	, 219.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	4.83 TON	1 SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weignt, 4000 psi	74.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	00.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	1221.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	1221.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	1221.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		r	148	3, 183	27	14,177	0	17,387	17386.61
06.01.03.05.01.03. Shear Key										
M MIL AA <03217 0700 > Reinforcing in place, walls, $\#3$ to $\#7$	0.35 TON	SIWRRODM4	0.38	10.67	278.93	0.00	963.00 337	0.00	1241.93 435	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	5.00 CY	N/A	0.00	0.00	0.00	0.00	126.26 631	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	5.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	00.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nign, 4 use, job built plywood	, 144.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Shear Key	1.00 EA		•	23	448	31	1,085	0	1,564	1564.30

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 06. Balancing Structure PROJECT C43RES;

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2.05 2.98 0.17 9.91 16.22 0.32 2.90 126.26 1326.20 19793.68 60272.25 1241.93 126.26 9422.70 TOTAL COST UNIT COST 1326.20 6,459 0.32 2,98 0.17 9.91 126.26 9,470 60,272 1241.93 2,273 126.26 16.22 2,999 9,423 19,794 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 00.0 0.00 00.0 0 0 0 0.00 0 0 0.00 126.26 126.26 3,535 0.03 963.00 4,690 963.00 0.81 6,155 EQUIPMNT MATERIAL 00.0 15,194 0.00 44,482 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3.80 0.00 6.21 0 740 285 174 1.83 6.12 363.20 278.93 3,093 LABOR 0.17 00.0 4,315 15,050 0.00 0.29 2.08 245 10.01 280 146 0.01 0.36 0.58 0.11 0.10 0.00 10.67 00.0 0.01 205 157 MANHRS 13,89 68 738 81 DUTPUT 54.38 43.75 22.50 0.00 0.29 0.38 0.00 13.75 61.88 112.50 67.50 ACMACEF11 4.87 TON SIWRRODM4 1.83 TON SIWRRODM4 ACMACEFI1 28.00 CY CLABC20 QUANTY UOM CREW ID CLABC20 ACARC2 ACARC2 ACARC1 N/A 75.00 CY 504.00 SF 184.00 SF 1416.00 SF 75.00 CY 1035.00 SF 840.00 SF 28.00 CY 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nign, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat place plywd 15'-20' nign 4 use M MIL AA <03217 0700 > Rainforcing in place, walls, #3 to #7 AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 06.01.03.05.02. Stilling Hydraulic Jump Basin TOTAL Stilling Basin Parabolic 06.01.03.05.02.01. Exterior Walls TOTAL Exterior Walls 06.01.03.05.01.04. Top Slab TOTAL Top Slab ΑF ΑF 06.01. Gate S12

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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06.01. Gate \$12	QUANTY UOM CREW	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
06.01.03.05.02.02. Interior Short Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.21 TON	0.21 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93 261	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	3.20 CY	N/A	0.00	00.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	3.20 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finisning walls, break ties & patch voids	144.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	144.00 SF	ACARC2	54.38	0.11	300	0.00	0.81	0.00	2.90	
TOTAL Interior Short Walls	1.00 EA		,	22	432	20	728	0	1,180	1180.18
06.01.03.05.02.03. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	120.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	396.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, $\#3$ to $\#7$	7.83 TON	7.83 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	120.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	1080.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	1080.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	1080.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	
TOTAL Base Slab	1 00 5		•	1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1		

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43RES: C43West Storage Reservoir - South Florida Water Management 30% Submittal

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06. Balancing Structure

16.22 0.32 2.90 0.32 126.26 16.22 2.90 126.26 1241.93 10765.93 OTHER TOTAL COST UNIT COST 1241.93 279.99 1241.93 126.26 126.26 1241.93 1241.93 2,807 2.90 126.26 76 1241.93 124 126.26 202 10,766 16.22 0.32 2.90 280 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0 LABOR EQUIPMNT MATERIAL 0.00 126.26 963.00 0.81 7,410 126.26 76 00.0 0.03 0.81 963.00 126.26 152 0.00 0.00 6.21 0.00 0.00 0.00 00.0 0.00 0.00 6.21 0.00 217 10.01 3,139 278.93 0.00 630 2.08 00.0 10.01 0.29 2.08 278.93 28 0.00 278.93 124 0.01 10.67 0.00 0.58 0.00 10.67 0.11 0.58 0.11 0.00 OUTPUT MANHRS 159 0.01 9 10.67 13.75 0.00 0.38 0.38 00.0 13.75 67.50 0.00 67,50 54.38 0.38 54.38 342.00 SF ACMACEFI1 2.26 TON SIWRRODM4 0.04 TON SIWRRODM4 ACMACEF11 0.10 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 988.00 SF ACARC2 45.00 SF ACARC2 N/A N/A N/A 35.00 CY 35.00 CY 0.60 CY 0.60 CY 45.00 SF 1.60 CY 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & MIL AA <03398 0010 > Finishing walls, break ties & M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 06.01.03.05.02.04. End Wall & Toe Support TOTAL End Wall & Toe Support 06.01.03.05.02.06. Baffle Blocks 06.01.03.05.02.05. Chute Blocks TOTAL Chute Blocks patch voids patch voids plywood 06.01. Gate S12

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOLA

UPB ID: UP01EA

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure PROJECT C43RES:

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16.22 0.32 2.90 30.76 815.60 TOTAL COST UNIT COST 110,457 110457.19 612, 329 612328.75 33083.79 2838.86 221,166 221165.67 4787.43 50184.94 7755.77 47237.58 831.67 628.93 33083.79 16.22 0.32 2.90 30.76 5,630 2838.86 17,033 4029.48 6527.88 46,535 50, 185 700.00 529.36 816 94,475 39758.93 OTHER 0.00 0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0 0.00 700.00 0.00 0.00 22256.00 133,536 0.81 10.70 1,958 LABOR EQUIPMNT MATERIAL 0.03 460,515 9,630 2140.00 2,543 3745.00 26,697 0.00 420 37,888 82,370 1605.00 21400.00 145,124 50,851 0.00 1,208 1912.82 6.21 5.06 00.0 0.00 0.00 00.0 0 10 7,757 0.00 0.00 0.00 468 12,404 10.01 1889.48 0.29 2.08 386 26,880 8914.98 15.00 18358.93 43,624 0.00 165.56 13 42 11,829 144,057 1233.86 7,403 63,638 2782.88 19,838 0.11 7,105 24.10 36.90 54.35 326 MANHRS 0.58 1,317 150.94 0.26 6.00 0.01 580 357.14 00.0 1,097 54.38 0.05 0.08 0.03 OUTPUT 0.02 0.01 0.00 0.55 13.75 67,50 27.36 6.00 EA EELEELEC2 144.00 SF ACMACEFI1 1.00 EA EELEELEC1 EELEELEC1 QUANTY UOM CREW ID 1.60 CY CLABC20 2.00 EA EELER19 0.07 MLF EELER18 6.00 EA SIWSE21 144.00 SF ACARC2 SIWSE2 183.00 LF 6.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 LS USR EL <16119 0002 > Actuator Starter & Remote Cutris MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built USR EL <16820 3580 > High Head Stilling well w/Remote Controls MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & TOTAL Stilling Hydraulic Jump Basin USR EL <16711 0011 > Meter Connection by Utility USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 USR AA <15911 0262 > Motorized Gate Operator USR AA <05150 0001 > Sluice Gate 5' x 6' CI TOTAL Stilling Basin 2 TOTAL Baffle Blocks patch voids USR EL <16119 0001 > RTU\MOSCAD USR AA <05120 0001 > Gate Stem TOTAL Concrete plywood TOTAL Gates 06.01.11. Electrical 06.01.05. Gates 06.01. Gate S12

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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06. Balancing Structure

907.16 368.80 10.61 522.84 TOTAL COST UNIT COST 187.12 948.81 1582.10 685.56 280.58 910.93 1099.34 233.70 267.11 157.49 187 236.16 3,648 578.68 8,938 310.41 2,582 798.59 577.02 1331.62 925.29 1,099 196.70 8.93 15,179 440.07 763.54 766.71 224.82 267 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 903.35 0.00 391.89 6,053 181.90 214.00 2,543 460.10 514.97 133.75 2,066 332.77 802.50 128.40 153 107.00 69.02 EQUIPMNT MATERIAL 0.00 0.00 0.00 0.00 85.16 17.03 0.00 0.00 0.00 0.00 62.38 00.0 9.87 4.30 LABOR 128.01 186.79 128.51 1,069 499.44 5,934 365.89 99.89 119 248.57 102.41 1,582 433.94 122.79 68.30 81 107.95 128 4.64 371.05 95 2.50 3.63 2.50 10.00 7.33 2.00 4.85 2.00 2.40 8.00 7.25 MANHRS 8.47 œ 1.33 0.11 0.40 0.69 1.00 09.0 0.82 3.00 0.50 OUTPUT 0.21 0.12 0.42 1.88 0.75 33.25 0.14 EELEELEC1 1.00 EA EELEELEC1 EELEELEC1 EELEELEC1 0.22 MLF EELEELEC1 EELEELEC1 ΙD EELER19 EELER19 EELER15 EELER15 EELER15 1.00 EA EELER19 COETR23 ULABC6 QUANTY UOM CREW ΕĄ 13.00 EA 7.00 EA 10.00 EA EA 1.00 EA 1.00 EA EA 1430.00 LF 13.00 EA 1.00 EA 1.00 10.00 1.00 MIL EL <16338 4400 > Safety switch, nvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16617 1040 > Lignting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, EL <16622 5230 > HID fxtr, floodlight, 250W nigh press sodium lamp, encl, heavy USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, Panelboard assem, 12-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain USR EL <16617 0002 > Lighting, poles, wood, 20' NOTE: Use for Meter Pole USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting NOTE: Use for Panel L copper, stranded, #12 USR EL <16611 4100 > Compact Fluorescent otagonal, conc controller Controller USR EL <16333 1401 > Photo-cell trencher 4320 > MIL EL <16325 MIL EL <02230 ΑF 06.01. Gate S12

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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DETAIL PAGE

6. Balancing Structure

6.13 56.67 5.20 7.19 12.97 8.66 7.19 6.45 5.20 OTHER TOTAL COST UNIT COST 84.59 612.55 1100.03 2730.93 467.03 952.34 615.34 515.57 1,982 1,705 47.70 4.38 5.16 6.05 393.09 934 517.92 5.43 10.92 156 801.57 71.20 7.29 6.05 4.38 925.88 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1049.67 LABOR EQUIPMNT MATERIAL 105.93 32.53 0.27 269.11 639 354.06 0.91 293.72 0.54 3.21 53.50 64 0.80 0.27 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 65.02 0.00 0.00 0 0.00 00.0 4.63 1,574 632.16 7.71 123.98 163.86 4.11 415.55 17.70 21 1248.90 5.14 49 5.14 4.63 4.11 44 8.00 12.35 24.39 0.30 0.15 7.99 2.42 3.20 0.35 0.10 OUTPUT MANHRS 0.08 0.09 0.10 0.12 0.08 60.0 0.13 0.08 3.38 25.00 2.89 0.04 16.67 0.31 0.41 0.31 25.00 27.78 31.25 31.25 27.78 20.83 3.24 MLF EELEELEC1 1.55 MLF EELEELEC1 0.08 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELELEC1 QUANTY UOM CREW ID EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER3 1.00 EA 1.00 EA 1.00 EA 50.00 EA 12.00 EA EA 6.00 EA 478.00 EA 90.00 EA 8.00 EA 1.00 EA 14.00 EA 22.00 EA 2.00 MIL EL <16333 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2 2483 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex NP MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEWA 3R MIL EL <16119 1250 > Wire, 600 volt, type IHWN-THHN, copper, stranded, #10 MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex MIL EL <16711 0500 > Elec & tel siteWK, 2'x2'x2'-6"
D, hand holes, precast conc,
W/conc cov USR EL <16153 0010 > Cable Termination #1/0 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0013 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0012 > Cable Termination #6 USR EL <16153 0011 > Cable Termination #4 USR EL <16153 0012 > Cable Termination #6 USR EL <16153 0013 > Cable Termination #8 USR EL <16232 06.01. Gate S12

UPB ID: UP01EA

CREW ID: NAT01A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

06.01. Gate \$12

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	NIT COST
] 	; ; ; ; ;		1 1 1 1 1 1 1]]]]] !			
USR EL <16153 0016 > Cable Termination #16	54.00 EA E	EELER19	31.25	0.08	4.11	0.00	0.16	0.00	4.27	5.08
MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	254.00 LF	EELEELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv	1191.00 LF	EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv	90.00 LF E	EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling	3200.00 LF E	EELEELECI	32.50	0.03	1.58	0.00	0.57	0.00	2.148,146	2.55
MIL EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, w/coupling	1260.00 LF E	BELEELECI	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	75.00 LF E	EELEELEC1	15.63	0.06	3.28	00.0	1.43	0.00	4.71	5.60
MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling	530.00 LF E	EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47 2,188	4.13
MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling	900.00 LF E	EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv	20.00 LF E	EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv	5.00 LF E	EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling	70.00 LF E	EELEELEC1	36.25	0.03	1.41	0.00	0.39	0.00	1.80	2.14
MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling	1490.00 LF E	EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
RSM EL <16119 0920 > Wire, 600 volt, type THWN-THHN, copper, solid, #14	0.07 MLF E	EELEELEC1	0.16	6.14	314.14	0.00	44.19	0.00	358.33	425.73
CIV EL <16153 0320 > Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, and #10	12.00 EA E	EELER20	1.24	1.05	54.01	0.00	39.80 567	0.00	93.82	111.46
MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10	5.57 MLF E	RELEELEC1	0.13	8.00	409.64 2,713	0.00	105.93	0.00	515.57	612.55

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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06.01. Gate \$12		QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
)					1			
	MIL EL <16326 0100 > Panelboard&1a ctr ckt brkr,15 - 50A,bolt-on,10k AIC,1 P,120V	2.00 EA EELEELEC1	1.25	0.80	40.96	0.00	10.70	0.00	51.66	61.38
	MIL EL <16326 0310 > Panelboard£ld ctr ckt brkr,70 - 100A,bolt-on,10k AIC,1 P,120V	2.00 EA EELEELEC1	1.00	1.00	51.21	0.00	20.33	0.00	71.54	84.99
	MIL EL <16325 4340 > Panelboard assem, 20-20A brkr, main Lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for distribution panel L	1.00 EA EELEELECI	0.08	12.32	630.60	0.00	428.54 509	0.00	1059.14	1258.36
	MIL EL <16337 1700 > Safety switch, heavy duty, 600 V, 3 pole non fused, 100 A	1.00 EA EELEELECI	0.24	4.20	215.15	0.00	293.18	0.00	508.33	603.94
	MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0	0.59 MLF BELEELEC1	0.04	24.39	1248.90 868	0.00	1049.67	0.00	2298.57	2730.93
	MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6	0.16 MLF EELEELEC1	0.08	12.35	632.16	0.00	293.72	0.00	925.88	1100.03
	MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranged, #12	6.62 MLF EELEELEC1	0.14	7.25	371.05	0.00	69.02 542	0.00	3,459	522.84
	MIL EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4	0.02 MLF EELER18	0.55	6.00	165.56	0.00	360.59	0.00	526.15	625.11
	MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, cadweld	21.00 EA EELER19	1.94	1.29	66.31 1,654	0.00	19.57	0.00	85.88 2,143	102.04
	CIV EL <16213 2744 > Pull box, hinged, steel, NEWA 4, 12"W x 12"W x 6"D	1.00 EA BELEELEC1	0.63	1.60	81.93	0.00	69.67	0.00	151.60	180.11
	MIL EL <16213 0380 > Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D	3.00 EA EELEELECI	0.46	2.16	110.59 394	0.00	69.98	0.00	180.57	214.54
	MIL EL <16213 0330 > Pull Dox, sneet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6"	1.00 EA EELEELECI	0.53	1.90	97.53 116	0.00	44.60	0.00	142,13 169	168.87
	MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling	555.00 LF EELEELEC1	22.50	0.04	2.28	00.00	1.20	0.00	3.47	4.13
	USR EL <16869 0090 > Lignting Contactor	1.00 EA EELER19	0.83	3.00	154.28	0.00	160.50 191	0.00	314.78	373.99
	MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, cadweld	1.00 EA EELER19	1.94	1.29	66.31	0.00	19.57 23	0.00	85.88 102	102.04

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers PROJECT C43Res: C43West Storage Reservoir - South Florida Water Management 30% Submittal

TIME 09:25:13

DETAIL PAGE

06. Balancing Structure

55.75 615.03 6.13 5.14 54.64 TOTAL COST UNIT COST 6295.07 1544.06 675.49 233.70 831.67 187.12 907.16 448.57 164.83 189.42 UPB ID: UP01EA 5298.43 6,295 517.66 2,460 1299.60 3,088 568.55 700.00 157.49 763.54 377.55 159.43 758 4.33 45.99 46.92 196.70 989 785 138.73 CREW ID: NAT01A OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 700.00 0.00 0.00 0.00 0.00 514.97 1,224 3210.00 354.06 363.73 128.40 0.00 0.21 LABOR EQUIPMNT MATERIAL 871.23 2,070 29.48 35 107.00 53.50 30.82 9.68 26.75 0.54 191 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 0 0 0 2088.43 163.59 1,018 204.82 243 68.30 105.93 503 37.24 00.0 248.57 128.01 152 270.55 4.63 59 15.17 321 111.98 798 704 4.11 75.69 3.19 0.00 8.33 4.00 4.85 4.23 4.00 1.33 2.50 5.26 0.09 0.73 OUTPUT MANHRS 0.08 0.30 0.04 0.30 0.25 1.88 00.0 0.40 0.48 0.59 0.63 3.38 1.38 0.31 0.21 27.78 31.25 Currency in DOLLARS EELEELECI EELEELEC1 EELEELEC1 **EELEELEC1** EELEELEC1 EELEELEC1 QUANTY UOM CREW ID 1.00 EA EELER18 EELER19 1.00 EA EELER19 EELER19 MSHMQ20 MSHMQ20 EELER19 EELER19 1.00 EA 4.00 EA 2.00 EA 1.00 EA 4.00 EA 2.00 EA 2.00 EA 1.00 EA 6.00 EA 128.00 EA 12.00 EA 4.00 EA 1.00 LS MIL EL <16313 9650 > Motor starter & cont, NEMA 1, size 1, comb, rev, w/disc switch MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEWA 3R CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H x 12"D, sheet met, dbl dr, NEMA gnd AF EL <16232 2480 > Wiring device, receptacle, gr fault intrpt, 15 amp, duplex USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, conduit, etc. NOTE: Use for RIU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <13810 0001 > Limit and Rotary Switches USR EL <16153 0016 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #14 USR EL <13810 0002 > Push Button Stations USR EL <13810 5471 > Surge Suppressor USR EL <16333 1401 > Photo-cell EQUIP ID: C43RES MIL EL <16338 LABOR ID: C43RES 06.01. Gate S12

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

TIME 09:25:13

DETAIL PAGE

06. Balancing Structure

736.09 910.17 848.03 708.21 708.21 10.61 TOTAL COST UNIT COST 280.58 1656.64 1620.70 157.49 524.68 270.65 1454.43 825.12 619.55 1,472 766.07 1,820 713.77 1394.36 227.80 2,165 236.16 1364.11 132.55 596.08 1,416 596.08 441.62 2,099 8.93 1224.16 694.48 660 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 497.55 1,182 246.10 151.62 0.00 371.08 133.75 1,112 1134.20 1,125 1,081 1,081 322.07 448.33 182,44 EQUIPMNT MATERIAL 882 535.00 636 57.54 68.12 324 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 4.30 337.46 LABOR 104.23 399.55 1,899 260.16 67.39 76.18 724 102.41 852 829.11 985 141.33 336 141.33 336 119.55 4.64 775.83 512.05 487 2.09 6.76 8.00 2.00 9.43 16.13 2.76 1.43 2.76 2.33 1.62 15.15 10.00 OUTPUT MANHRS 0.11 0.89 0.75 0.16 2.88 0.50 0.35 3.25 0.72 0.72 1.08 2.88 33.25 0.10 0.07 **EELEELEC2** EELEELEC2 **EELEELEC1** 0.03 MLF EELEELEC1 0.80 MLF EELEELEC1 QUANTY UOM CREW ID EELER15 EELER15 EELER15 EELER19 EELER19 0.84 MLF EELER18 EELER22 EELER22 COETR23 EA 7.00 EA 1.00 EA 2.00 EA EA 4.00 EA 2.00 EA 4.00 EA ΕÀ EA 3320.00 LF 2.00 4.00 2.00 8.00 security, ext wall NOTE: Use for type D (250w Metal Halide EH9) MIL EL <16617 3000 > Potes, area lighting, 10' tall, round, 3" OD, al, non-tapered MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole MIL EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12) MIL EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8 MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8) Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher NOTE: Use for fixture type C USR EL <16611 0001 > Ltg fxtr, 175w Metal Halide (EH-1) B USR EL <16622 3010 > Ltg fxtr, 175w Metal Halide (EH1) MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0 NOTE: Use for fixture type USR EL <16617 3300 > Light Pole Foundation MIL EL <16622 3060 > Ltg, HID fxtr,250W USR EL <16865 0125 > Level Gage tapered 4020 > MIL EL <02230 06.01. Gate S12

UPB ID: UP01EA

CREW ID: NAT01A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

06.01. Gate S12

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES;

Balancing Structure

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DETAIL PAGE

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12.97 0.17 18.10 400.49 17.95 0.22 0.23 TOTAL COST UNIT COST 25083.87 4066.14 1099.34 50586.44 1090.80 374,501 374501.11 126.26 50586.44 21112.59 25,084 337.08 10.92 3422.39 925.29 0.17 126.26 631 17.95 90 0.22 0.23 OTHER 0.00 0.00 0.00 0.00 0.00 00.0 1,663 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 42.80 18725.00 22,247 41730.00 LABOR EQUIPMNT MATERIAL 0.51 727.60 146 126.26 631 00.0 00.0 0.00 00.0 802.50 953 173,653 1676.22 0.00 7.94 323.02 00.0 0.00 0.00 00.0 0.00 0.77 27,000 00.0 00.0 00.0 7180.22 7,180 294.28 2064.57 122.79 0.96 315.11 146 10.01 0.17 0.22 0.23 1.07 172,184 46 39.68 6.15 2,979 0.15 2.40 130.08 OUTPUT MANHRS 0.58 0.03 0.05 13.89 0.00 c 0.01 0.01 0.01 0.17 0.16 0.42 90.0 0.29 90.63 16.67 90.0 75.00 00.00 13.75 112.50 47.50 84.38 0.16 MLF EELEELEC1 EELEELEC1 0.20 TON SIWRRODM4 EELEELEC1 ACMACEF 11 ACMACEF11 ACMACEF11 CODFB10N QUANTY UOM CREW ID EELER19 1.00 EA SIWSE7A ACARC1 ULABC7 N/A 68.00 LF 30.00 EA 1.00 EA 1.00 EA 1.00 EA 5.00 CY 5.00 CY 264.00 SF 1.00 EA 264.00 SF 264.00 SF 5.00 CY MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, i.5 CY NOTE: Use for granular fill edge forms, USR AA <03450 0001 > Precast Concrete Building Note: USR EL <16119 0990 > Wire, 600 volt, type THWN-THHN, MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole Note: Material price from Concrete Modular Systems 727-945-1756 o ATIN: Frederick Kennedy MIL AA <03372 4400 > Placing conc, slab on grade, MIL AA <03396 0010 > Finishing floors, monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finisning floors, monolithic, broom finish M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 USR EL <16513 2015 > Emergency Generator 20 KW MIL AA <03170 3000 > Forms in place, SOG, ed; wood, to 6" high, 4 use thick, w/crane & bucket USR EL <16153 0010 > Cable Termination #1/0

USR EL <16323 0001 > Terminal Box

TOTAL Electrical

06.01.15. Equipment Building

EQUIP ID: C43RES LABOR ID: C43RES

screed finish

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

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TIME 09:25:13

06.01. Gate S12	QUANTY UOM CREW	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
under precast building		 								
TOTAL Equipment Building	1.00 JB			148	7,537	1,720	42,623	0	51,880	51880.06
06.01.90. Miscellaneous										
MIL AA <03198 1050 > Waterstop, PVC, dumbbell, 9" wide, 3/8" thick, center bulb	588,00 LF	ACARCARP1	16.25	0.06	1.23	00.00	6.26	0.00	7,49	7.49
USR AA <15115 0571 > Wall Thimble Type F	6.00 EA	MPLUPLUM1	0.30	3.33	136.01 816	0.00	321.00	0.00	457.01	457.01
M MIL AA <05542 0622 > Heavy Duty Steel Grating	360.00 SF	SIWSE4	75.00	0.05	3.32	0.13	9.10	0.00	12.54	12.54
B RSM AA <05130 0450 > W8 X 31 I Beam	1860.00 LB	SIWSE3	78.18	0.04	2.00	0.15	0.91	0.00	3.05	3.05
MIL AA <02752 3920 > Maintenance Ladder Rungs	99.00 EA	AMABBRIC1	5.00	0.20	4.49	0.00	13.91	0.00	18.40	18.40
B RSM AA <05130 0450 > Maintenance Ladder Posts	4.00 EA	SIWSE3	1.30	2.30	119.95	8.76	321.00	0.00	449.71	449.71
B MIL AA <05518 0010 > Maintenance Ladder Safety Cage	71.00 VLF	SIWSE4	13.12	0.30	19.00	0.72	36.38	0.00	56.10	56.10
B MIL AA <05523 0530 > 2 1/2" Dia Steel railing 42" Righ	62.00 LF	SIWSE4	16.61	0.24	15.00	0.57	27.82	0.00	43.39	43.39
B MIL AA <15155 1970 > Pipe PVC sched 40 no coupling/hanger 8" dia	58.00 LF	MP LUQ2	3.41	0.88	34.03	0.00	10.70 621	0.00	44.73	44.73
RSM AA <05130 0450 > Trash Strut Steel	7365.00 LB	SIWSE3	33,13	0.09	4.72	0.34	0.40	0.00	5.46	5.46
TOTAL Miscellaneous	1.00 EA		ŀ	927	46,184	2,969	20, 532	0	989'69	69685.72
06.01.95. Controls										
USR MC <15743 0001 > Service Gate IO Points	3.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 3,219	0.00	1056.00	1323.70
USR MC <15743 0001 > Upstream Downstream Level 10 Points	2.00 EA	N/A	0.00	0.00	200.00	0.00	856.00 2,146	0.00	1056.00	1323.70
USR MC <15743 0001 > Emergency Generator IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 1,073	0.00	1056.00	1323.70

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
06. Balancing Structure

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

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0.75 9.13 1498749 OTHER TOTAL COST UNIT COST 169,187 169187.40 1498749 795.97 2387.92 635.00 1905.00 2,388 0.60 7.28 146,008 1,663 1,498,749 1,663 1,498,749 0.00 0.00 0.00 0.00 0 535.00 671 1605.00 2,012 0.00 4.28 EQUIPMNT MATERIAL 94,960 54,467 937,408 937,408 0.00 0.00 54,467 0.13 0.00 2,617 LABOR 0.47 100.00 300.00 3.00 71,610 0.00 0.01 1,915 OUTPUT MANHRS 00.00 0.11 30.35 1,739 0.00 0.00 90.63 QUANTY UOM CREW ID 16000 LF EELER18 16000 LF CODBB54 1.00 EA N/A 1.00 EA N/A 1.00 EA 1.00 EA 1.00 EA AF MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher USR MC <15743 0001 > Telemetry To/From Gated Structure USR MC <15743 0001 > Control Conduit & Cable TOTAL Balancing Structure USR MC <15743 0001 > 16 VHF Data Radios Structure TOTAL Gate S12 TOTAL Controls 06.01. Gate S12

CREW ID: NATO1A UPB ID: UP01EA

U.S. Atmy Corps of Engineers
PROJECI C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07, Perimeter Canal Structures

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07.01. Gate S3	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
07. Perimeter Canal Structures 07.01. Gate 53									
07.01.01. Excavation									
CIV AA <02228 0392 > Excavate, mcm soil, 3CY excavator	3345.00 CY CODEB12Y	288.50	0.01	0.39	0.31	0.00	0.00	0.70	0.70
TOTAL Excavation	1.00 JB	•	35	1,289	1,040	0	0	2,329	2328.79
07.01.02. Sheet Piling									
USR TF <02161 0001 > Steel Sheet Pile Cutoff	4453.00 SF CPIDB40	95.63	0.08	3.40	1.62	16.05	0.00	21.07	25.73
TOTAL Sheet Piling	1.00 EA	•	373	18,483	8,825	87,251	0	114,560	114,560 114559.69
07.01.03. Concrete									
07.01.03.01. Slab On Grade									
07.61.03.01.01. Bottom Slab At Culvert									
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	39.00 CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	184.00 SF ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	3.82 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	39.00 CY N/A	00.00	0.00	00.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	624.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	624.00 SF ACMACEFI1	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	624.00 SF ACMACEFI1	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Bottom Slab At Culvert	1.00 EA	•	102	2,241	14	8.756		11000	

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

07.01. Gate S3

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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OTHER

LABOR

MANHRS

OUTPUT

QUANTY UOM CREW ID

07. Perimeter Canal Structures

4.28 2.49 0.22 2.49 0.25 0.17 0.25 4.28 0.17 0.22 TOTAL COST UNIT COST 1326.20 126.26 2972.61 1326.20 126.26 25569.02 4.28 2.49 1326.20 126.26 0.22 2,973 2.49 25,569 0.17 4.28 1326.20 126.26 9,470 0.25 235 0.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 963.00 0.00 0.00 0.83 EQUIPMNT MATERIAL 126.26 1,263 0.00 2,264 963.00 10,266 126.26 0.00 0.00 19,996 0.00 0.00 0.00 00.0 0.00 0.00 0.00 0 0.00 0.36 00.00 0.00 0.00 00.0 27 1.65 363.20 0.25 0.17 0.22 1.65 0.00 0.00 45 705 363.20 0.22 0.25 5,546 0.00 0.09 13.89 0.01 0.01 0.01 0.29 0.09 0.01 33 13.89 0.00 0.01 0.01 148 43.75 0.00 90.63 0.29 78.75 20.63 43.75 0.29 0.00 78.75 20.63 112.50 112.50 90.63 0.96 TON SIWRRODM4 ACMACEF 11 260.00 SF ACMACEFI1 ACMACEF11 ACMACEF I 1 ACMACEF11 10.66 TON SIWRRODM4 ACMACEF11 75.00 CY ULABC6 ACARC1 ACARC1 N/A N/A 260.00 SF 10.00 CY 92.00 SF 10.00 CY 313.00 SF 1357.00 SF 260.00 SF 75.00 CY 1357.00 SF 1357.00 SF 1.00 EA 1.00 MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over $12^{\prime\prime}$, 4 use MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0150 > Finishing floors, monolithic, broom finish monolithic, monolithic, MIL AA <03396 0150 > Finishing floors, monolithic, broom finish monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Roadway Approach Slab 07.01.03.01.02. Roadway Approach Slab MIL AA <03396 0010 > Finishing floors, screed finish MIL AA <03396 0100 > Finishing floors, float finish MIL AA <03396 0010 > Finishing floors, screed finish TOTAL Apron Slab 07.01.03.01.03. Apron Slab

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

07. Perimeter Canal Structures

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2.90 126.26 16.22 0.32 1241.93 16.22 OTHER TOTAL COST UNIT COST 148892.61 1241.93 126.26 39,553 1241.93 126.26 0.32 1241.93 6,309 16.22 2.90 148,893 126.26 6,439 16.22 827 0.32 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 963.00 3,476 126.26 124,114 0.00 0.03 0.81 963.00 126.26 6,439 EQUIPMNT MATERIAL 31,017 00.0 0.03 128,731 0.00 6.21 0.00 0.00 44 0.00 0.00 0.00 6,105 0.00 6.21 LABOR 278.93 1,007 8,492 00.0 10.01 399 2.08 278.93 00.0 10.01 0.29 14,056 0.11 377 10.67 0.00 0.58 OUTPUT MANHRS 0.01 20 10.67 0.00 0.58 0.01 780 0.00 13.75 67.50 54.38 0.38 0.38 00.0 13,75 3.61 TON SIWRRODM4 ACMACEF11 5.08 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 1349.00 SF ACARC2 N/A N/A 983.00 CY 983.00 CY 1.00 EA 1382.00 SF 51.00 CY 51.00 CY 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps1 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Abutment Upstream 07.01.03.02.02. Abutment Downstream 07.01.03.02.01. Abutment Upstream TOTAL Slab On Grade plywood 07.01.03.02. Walls 07.01. Gate S3

EQUIP ID: C43RES LABOR ID: C43RES

0.32

2.90

2.90

0.00

0.81

0.00

2.08

0.11

54.38

1356.00 SF ACARC2

MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built

1.00 EA

TOTAL Abutment Downstream

67.50

ACMACEF11

1412.00 SF

17957.46

17,957

0

12,479

317

5,161

254

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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07. Perimeter Canal Structures

0.32 2.90 16.22 126.26 16.22 0.32 2.90 OTHER TOTAL COST UNIT COST 1241.93 126.26 4953.97 1241.93 8550.41 1241.93 126.26 1241.93 1241.93 2,745 126.26 16.22 0.32 0.32 2.90 126.26 2,778 8,550 4,954 16.22 2,405 126.26 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 0 0.81 0.81 963.00 1,050 126.26 0.00 0.03 2,972 963.00 2,128 126.26 2,778 0.03 963.00 1,416 126.26 EQUIPMNT MATERIAL 21 0.00 5,608 6.21 0.00 0.00 6.21 0.00 0.00 0.00 0.00 00.0 0.00 0.00 68 137 LABOR 10.01 278.93 0.29 0.00 0.29 2.08 1,914 0.00 10.01 2.08 2,806 278.93 0.00 187 0.01 0.58 0.00 0.11 OUTPUT MANHRS 0.58 97 10.67 24 0.00 0.01 0.11 140 10.67 0.00 0.38 00.0 13.75 67.50 54.38 0.38 00.0 13.75 67.50 54.38 0.38 0.00 1.09 TON SIWRRODM4 2.21 TON SIWRRODM4 ACMACEF11 ACMACEF11 1.47 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 ACARC2 830.00 SF ACARC2 N/A N/A 11.00 CY 11.00 CY 630.00 SF 22.00 CY 22.00 CY 547.00 SF 830.00 SF 15.00 CY 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Exterior Walls 07.01.03.02.04. Exterior Walls patch voids 07.01.03.02.05. Interior Wall plywood to #7 TOTAL Pier 07.01. Gate S3

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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07.01, Gate S3		QUANTY UOM CREW ID	M CREW ID	INAINO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
	MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	15.00 CY	CLABC20	13.75	0.58	10.01	6.21	00.0	0.00	16.22	16.22
	MIL AA <03398 0010 > Finishing walls, break ties & patch voids	440.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
	MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	440.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 358	0.00	2.90	2.90
	TOTAL Interior Wall	1.00 EA		r	- 62	1,604	66	3,681	0	5,379	5378.89
	07.01.03.02.06. Head Wall										
	M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	2.08 TO	2.08 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
	M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	21.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 2,651	0.00	126.26	126.26
	MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	21.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
	MIL AA <03398 0010 > Finishing walls, break ties & patch voids	881.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
	MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	797.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 648	0.00	2,90	2.90
	TOTAL Head Wall	1.00 EA			135	2,706	130	5, 331	0	8,167	8167.23
	TOTAL WAlls	1.00 EA		•	1,486	28,248	6,850	158,802	0	193,901	193900.56
	07.01.03.03. sill 07.01.03.03.01. End Sill										
	M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	O.09 TO	0.09 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
	M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	2.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26 253	126.26
	MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	2.00 CY	CLABC20	13.75	0.58	10.01	6.21	00.00	0.00	16.22	16.22

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rbs: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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07.01. Gate S3	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	103.00 SF	ACMACEFI1	67.50	0.01	0.29	00.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	26.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL End Sill	1.00 EA				129	12	364	0	505	505.12
07.01.03.03.02. For Dewatering Needles										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to ± 7		0.06 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	1.00 CY	N/A	00.00	00.0	0.00	00.00	126.26 126	00.0	126.26 126	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	1.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	115.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	5, 26.00 SF	ACARC2	54.38	0.11	2.08	00.0	0.81	0.00	2.90	2.90
TOTAL For Dewatering Needles	1.00 EA		'	9	114	9	209	0	329	329.23
TOTAL Sill	1.00 EA		'	12	243	19	573	0	834	834.35
07.01.03.04. Baffles										
07.01.03.04.01. Baffles										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7		0.09 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	2.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 253	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	2.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch volds	136.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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07.01. Gate S3	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	96.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL BAffles	1.00 EA		1	15	284	12	422	0	719	718.53
TOTAL Baffles	1.00 EA		,	15	284	12	422	0	719	718.53
07.01.03.07. Elevated Slabs										
07.01.03.07.01. Top Slab At Culvert										
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	657.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	88.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	00.0	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	32.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	32.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7	5.36 TON	5.36 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00 5,162	0.00	1326.20	1326.20
TOTAL TOP Slab At Culvert	1.00 EA		•	150	3,361	121	9,954	0	13,437	13436.65
07.01.03.07.02. Roadway										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	7.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	46.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.72 TON	SIWRRODM4	0.29	13.89	363.20 262	0.00	963.00 693	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4060 psi	7.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 884	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	478.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	478.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	00.0	0.00	0.22	0.22

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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07. Perimeter Canal Structures

0.25 2.98 0.17 16.22 0.32 2.90 9.91 126.26 TOTAL COST UNIT COST 2286.97 1326.20 678.25 16401.87 1241.93 126.26 1784.95 0.25 126.26 2,287 1326.20 252 1241.93 126.26 505 0.32 1,785 9.91 16,402 16.22 2.90 626 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10 0 0.00 0.81 1,616 0.00 00.0 126.26 146 963.00 183 12,002 963.00 385 126.26 1,075 EQUIPMNT MATERIAL 432 0.00 0.03 0.00 0.00 0.00 6.21 0.00 0.00 00.0 3.80 0.00 128 0.00 25 LABOR 0.25 699 1.83 0.17 6.12 0.00 363.20 278.93 0.00 10.01 0.29 2.08 241 40 685 4,271 0.01 0.36 0.00 0.00 32 0.01 0 13.89 10.67 0.58 0.01 0.11 35 MANHRS 194 0.00 13.75 OUTPUT 78.75 112.50 22.50 0.29 0.38 0.00 67.50 54.38 61.88 478.00 SF ACMACEFI1 ACMACEF 11 0.19 TON SIWRRODM4 0.40 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID 1.16 CY CLABC20 ACARC2 ACARC2 N/A 4.00 CY N/A 2.50 SF 1.16 CY 288.00 SF 216.00 SF 90.00 SF 1.00 EA 4.00 CY 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built CIV AA <03150 1500 > Forms in place, elev slab, flat place plyed 15'-20' nigh 4 use M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped MIL AA <03398 0010 > Finishing walls, break ties & patch voids ö MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 TOTAL Operating Platform 07.01.03.07.03. Operating Platform TOTAL Elevated Slabs TOTAL Breast Wall 07.01.03.08.01. Breast Wall TOTAL Roadway 07.01.03.08. Breast Wall 07.01. Gate S3

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

U.S. Almy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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07.01. Gate S3	QUANTY UC	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
TOTAL Bresst Wall	6			1 1 1 1 1 1 1 1 1 1					1	
1151 200044 41110	1.00 EA			35	685	25	1,075	0	1,785	1784.95
07.01.03.09. Pile Cap										
07.01.03.09.01. Pile Cap										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.63 TO	0.63 TON SIWRRODM4	0.38	10.67	278.93 176	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	12.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	12.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	640.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	480.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 390	0.00	2.90 1,391	2.90
TOTAL Pile Cap	1.00 EA				1,481	75	2,533	0	4,088	4088.30
TOTAL Pile Cap	1.00 EA				1,481	75	2,533	0	4,088	4088.30
07.01.03.10. Seal Concrete										
07.01.03.10.01. Seal Concrete										
M RSM AA <03326 0100 > Concrete ready mix, regular weight, 2500 psi	559,00 CY	N/A	00.00	0.00	0.00	0.00	74.90	0.00	74.90	74.90
MIL AA <03372 4650 > Placing conc, slab on grade, over 6" thick, pumped	559.00 CY	CLABC20	23.13	0.35	5.95	3.69	0.00	0.00	9.64	9.64
TOTAL Seal Concrete	1.00 EA		•	193	3, 327	2,064	41,869	0	47,260	47260.04
TOTAL Seal Concrete	1.00 EA			193	3, 327	2,064	41,869	0	47,260	47260.04
TOTAL Concrete	1.00 EA			2,389	47,032	9,218	248, 292	0	304,542	304541.69
07.01.04. Erosion Control System										
MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	292.00 CY	CODEB3A	9.75	0.51	10.53	6.14	24.71	0.00	41.37	41.37

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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CTY AM 67226 210 Consequently faculty and consequently faculty faculty consequently faculty consequently faculty faculty faculty consequently faculty faculty faculty consequently faculty faculty faculty faculty faculty faculty faculty faculty fac	07.01. Gate S3		QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
1500 Para courrab crossed stone 34		CIV AA <02250 2140 > Geotextile fabric, 120 mil				0.02	0.41	0.15	1.38	0.00	1.93	1 1 1 1 1 1
State Stat			584.00 SI		150.00	12	237	980	808	0	1,130	1.93
TOTAL Erosion Control System 1.00 JB 1		MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	97.00 CY		54.38	0.09	3.39	4.02	25.96	0.00	33.37 3,237	33.37
0001 > Nitu Gate 10' x 10' SST		TOTAL Erosion Control System	1.00 JB			170	3,642	2,268	10,538	0	16,448	16447.54
0001 > Siting Gate 10' x 10' SST	07.01	.05. Gates										
100 Weir Cate 10' x 5' SST 100 EA SIWSEZI 0.03 299.63 17656.39 3796.96 3,797 26,750 0.00 48243.37 100 10		×	1.00 EA		0.01		35260.72 35,261	7565.63 7,566	52965.00 52,965	0.00	95791.35 95,791	95791.35
510 Passe course, crushed stone, 3/4" max size, compacted, 3°D, large 121.00 CY COFGB36C 54.38 0.09 3.39 4.02 25.96 0.00 33.37 4.02 2.596 0.00 3.33 3.33 3.34 4.02 2.596 0.00 3.33 3.34 4.02 3.141 0.15 4.02 4.038 3.34 4.038 4.038 3.34 4.038 3.34 4.038 4		5	1.00 EA		0.03		17696.39 17,696	3796.98 3,797	26750.00 26,750	00.00	48243.37	48243.37
1510 Base course, crushed stone, 3/4" 151.00 cy COFGB36C 54.38 11 410 487 3.141 0.00 1.93 31.31 4.02 25.96 0.00 33.37 31.41 4.038 33.31 4.02 3.141 0.00 1.93 31.41 4.038 3.141 4.038 4.038 3.141 4.038 3.141 4.038 4.038 3.141 4.038 4.038 4.038 3.141 4.038 4.038 4.038 3.141 4.038 4.0		TOTAL Gates	1.00 EA			897	52,957	11,363	79,715	0	144,035	144034.73
1510 Base course, crushed stone, 3/4" 24.38 11 410 487 3,141 0 0 0 0 0 0 0 0 0	07.01	.06. Rip Rap										
1000 Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY 1.00 EA		MIL AA <62244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	121.00 CY		54.38	0.09	3.39	4.02	25.96	0.00	33.37 4,038	33.37
1000 Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY 242.00 CY CODEB3A 9.75 124 2.549 1,485 5,979 0.00 10,013		CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene			150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93
TOTAL Rip Rap 1.00 EA 1.00 E		pieces, - 1/4 C	242.00 CY		9.75	0.51	10.53	6.14	24.71 5,979	0.00	41.37	41.37
0001 > RTU\MOSCAD 1.00 EA EELEELECI 0.03 37 2,245 0.00 2140.00 0.00 4029.48 0002 > Actuator Starter & Remote Cntris 2.00 EA EELEELECI 0.01 185 11,266 0.00 4815.00 0.00 9556.20 0011 > Meter Connection by Utility 1.00 LS 0.00 0.00 0.00 0.00 700.00 700.00 832 832 832 0.00 529.36 1.00 LS 6.00 165.56 0.00 363.80 0.00 529.36 1.00 LS 6.00 165.56 0.00 363.80 0.00 529.36		TOTAL Rip Rap	1.00 EA			145	3,153	2,042	9,780	0	14,975	14974.64
1.00 EA ELEELECI 0.03 36.90 1889.48 0.00 2,543 0 4,787 0 4	07.01	.11. Blectrical										
<pre><16119 0002 > Actuator Starter & Remote Cntris 2.00 EA EELEELECI</pre>			1.00 EA		0.03	36.90	1889.48	0.00	2140.00	00.0	4029.48	4787.43
<pre><16711 0011 > Meter Connection by Utility 1.00 LS 1.00 LS 1.00 LS 0.00 0.00 0.00 0.00 700.00 700.00 0.00 0 0 832 832 <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 0.07 MLF EELER18 0.55 0 13 0 28 0 41</pre>		<16119 0002 > Actuator Starter &	2.00 EA		0.01	92.59 185	4741.20 11,266	0.00	4815.00 11,441	0.00	9556.20	11353.73
<16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 0.07 MLF EELER18 0.55 0 13 0 28 0 41		<16711 0011 > Meter Connection	1.00 LS		0.00	0.00	0.00	0.00	0.00	700.00	700.00	831.67
		USR EL <16181 5999 > Grounding, Laid in trench, copper, bare stranded, #6	0.07 MI	FELER18	0.55	00.9	165.56	0.00	363.80	0.00	529.36 41	628.93

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

07.01. Gate S3

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal

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07. Perimeter Canal Structures

368.80 10.61 TOTAL COST UNIT COST 187.12 948.81 1582.10 685.56 907.16 280.58 910.93 1099.34 233.70 267.11 522.84 157.49 187 578.68 310.41 2,582 798.59 577.02 686 236.16 3,648 925.29 1,099 8.93 1331.62 763.54 766.71 196.70 234 224.82 267 440.07 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 903.35 0.00 391.89 6,053 181.90 214.00 2,543 460.10 514.97 133.75 2,066 332.77 802.50 128.40 107.00 69.02 18 EQUIPMNT MATERIAL 0.00 0.00 0.00 85.16 17.03 0.00 0.00 0.00 0.00 0.00 62.38 0.00 9.87 4.30 LABOR 186.79 128.51 128.01 152 499.44 5,934 365.89 99.89 248.57 295 102.41 433.94 122.79 68.30 107.95 128 4.64 7,878 371.05 95 119 2.50 3.63 2.50 10.00 7.33 2.00 4.85 2.00 2.40 8.00 7.25 MANHRS 8.47 œ 1.33 0.11 0.40 0.69 1.00 0.60 0.82 3.00 0.50 0.42 0.75 33.25 TUTIO 0.21 0.12 1.88 0.14 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 0.22 MLF EELEELEC1 EELEELEC1 ID EELER19 EELER19 EELER15 EELER15 EELER15 1.00 EA EELER19 COETR23 ULABC6 QUANTY UOM CREW 1.00 EA EA EA 13.00 EA 7.00 EA 10.00 EA ΕÀ 1.00 EA ΕA EA 1430.00 LF 13.00 EA 1.00 1.00 1.00 1.00 10.00 MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16617 1040 > Lignting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, EL <16622 5230 > HID fxtr, floodlight, 250W high press sodium lamp, encl, heavy USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, 4320 > Panelboard assem, 12-20A brkr, main 1ugs, 100A, 1pn, 3 wire, 120/240V MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting USR EL <16617 0002 > Lighting, poles, wood, 20' NOTE: Use for Meter Pole USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting NOTE: Use for Panel L copper, stranded, #12 USR EL <16611 4100 > Compact Fluorescent otagonal, conc controller Controller USR EL <16333 1401 > Photo-cell trencher MIL EL <16325 AF

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

ID: NAT01A

CREW

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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07. Perimeter Canal Structures

5.20 6.13 7.19 84.59 8.66 7.19 6.45 5.20 56.67 12.97 467.03 TOTAL COST UNIT COST 612.55 1100.03 2730.93 952.34 615.34 515.57 925.88 2298.57 47.70 5.16 517.92 615 7.29 5.43 4.38 6.05 10.92 156 801.57 393.09 934 71.20 6.05 4.38 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 3.21 0.91 1049.67 94 32.53 0.54 269.11 639 354.06 53.50 1.12 0.80 0.27 LABOR EQUIPMNT MATERIAL 293.72 541 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 0.00 65.02 7.71 409.64 1,574 632.16 1248.90 15.17 4.11 4.63 5.14 415.55 123.98 163.86 17.70 21 6.17 5.14 4.63 4.11 2,335 244 49 44 86 8.00 24.39 0.15 7.99 2.42 3.20 0.35 12.35 0.08 0.09 0.10 0.12 0.10 0.09 0.08 MANHRS 0.13 3.38 31.25 27.78 OUTPUT 0.08 0.04 25.00 16.67 0.31 0.41 0.31 2.89 25.00 27.78 20.83 31.25 1.00 EA EELEELECI 3.24 MLF EELEELEC1 0.08 MLF EELEELEC1 EELEELEC1 **EELEELEC1** EELEELEC1 1.55 MLF EELEELEC1 EELER19 QUANTY UOM CREW ID EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER3 478.00 EA 1.00 EA ΕÀ 90.00 EA 8.00 EA 12.00 EA EA 1.00 EA 1.00 EA 6.00 EA 14.00 EA 22.00 EA 50.00 2.00 MIL EL <16333 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2 USR EL <16232 2483 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex WP MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, MIL EL <16711 0500 > Elec & tel sitewk, $2^{1}x2^{1}x2^{1}-6^{n}$ D, hand holes, precast conc, USR EL <16153 0010 > Cable Termination #1/0 USR EL <16153 0013 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0012 > Cable Termination #6 Cable Termination #4 USR EL <16153 0012 > Cable Termination #6 copper, stranded, #6 USR EL <16153 0013 > Cable Termination #8 w/conc cov USR EL <16153 0011 > 07.01. Gate S3

UPB ID: UP01EA

NATO1A

CREW ID:

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Supmittal

07. Perimeter Canal Structures

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5.60 7.83 5.08 10.23 4.13 5.60 4.13 2.55 2.55 10.23 7.83 2.14 2.55 TOTAL COST UNIT COST 425.73 111.46 612,55 4.71 4.71 2.148,146 8.61 6.59 6.59 8.61 3.47 3.47 1.80 93.82 515.57 3,414 2.14 2.14 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.43 2.18 EQUIPMNT MATERIAL 3.49 0.57 1.20 0.57 3.49 2.18 0.57 39.80 105.93 1.43 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 0.00 0 00.0 0.00 0.00 0.00 LABOR 4.40 1.58 409.64 2,713 989 2.28 2.28 1.58 5.12 4.40 1.41 1.58 314.14 54.01 111 0.04 0.09 0.10 0.03 OUTPUT MANHRS 90.0 90.0 0.04 0.03 0.10 0.03 1.05 8.00 0.09 0 0.03 46 6.14 10.00 32.50 22.50 15.63 22.50 10.00 11.63 36.25 32.50 0.16 0.13 31,25 15.63 11.63 32.50 1.24 EELEELEC1 **EELEELEC1 EELEELEC1** EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELECI EELEELEC1 EELEELEC1 0.07 MLF EELEELEC1 5.57 MLF EELEELEC1 QUANTY UOM CREW ID EELER19 EELER20 54.00 EA EA 254.00 LF couplings only, steel rigid galv 1191.00 LF MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv 90.00 LF 3200.00 LF 75.00 LF 530.00 LF 900.00 LF 20.00 LF 1490.00 LF 1260.00 LF 5.00 LF 70.00 LF 12.00 MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl Couplings only, steel rigid galv MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl RSM EL <16119 0920 > Wire, 600 volt, type THWN-THHN, copper, solid, #14 CIV EL <16153 0320 > Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, and #10 MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling MIL EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, w/coupling USR EL <16153 0016 > Cable Termination #16 07.01. Gate S3

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOIA

UPB ID: UP01EA

07.01. Gate S3

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES;

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61.38 4.13 84.99 1258.36 180.11 TOTAL COST UNIT COST 603,94 2730.93 1100.03 522.84 625.11 102.04 214.54 168.87 22292.35 51.66 1059.14 1,258 508.33 2298.57 1,598 925.88 440.07 3,459 85.88 151.60 142.13 18763.03 44,585 526.15 180.57 3.47 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10.70 428.54 293.18 348 69.02 542 20.33 1049.67 360.59 19.57 488 69.67 69.98 44.60 7490.00 160.50 191 EQUIPMNT MATERIAL 293.72 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 0.00 0.00 0.00 0.00 0 00.0 0.00 00.0 LABOR 630.60 215.15 256 40.96 51.21 1248.90 868 371.05 2,916 110.59 97.53 11273.03 26,787 165.56 66.31 81.93 2.28 154.28 632.16 0.80 12.32 219.30 439 1.00 4.20 7.25 6.00 1.29 1.60 1.90 0.04 3.00 MANHRS 24.39 12.35 2.16 OUTPUT 0.63 1.25 1.00 0.08 0.24 0.04 0.08 0.14 0.55 1.94 0.46 0.53 0.01 22.50 EELEELEC1 1.00 EA EELEELECI EELEELEC1 0.59 MLF EELEELEC1 0.16 MLF EELEELEC1 6.62 MLF EELEELEC1 **EELEELEC1** EELEELEC1 BELEBLECT EELEELEC1 **EELEELEC1** QUANTY UOM CREW ID 0.02 MLF EELER18 21.00 EA EELER19 EELER19 EELER19 2.00 EA 2.00 EA 1.00 EA ΕÀ 1.00 EA 1.00 EA ΕÀ EA 555.00 LF 3.00 1.00 2.00 MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16326 0100 > Panelboard&ld ctr ckt brkr,15 - 50A,bolt-on,10k AIC,1 P,120V MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12 Safety switch, neavy duty, 600 V, 3 pole non fused, 100 A MIL EL <16213 0330 > Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6" Panelboard assem, 20-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V
NOTE: Use for distribution panel L MIL EL <16181 6310 > Grounding, gna conductor bond, 4/0-300 MCM, splice or lug, MIL EL <16213 0380 > Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D MIL EL <16326 0310 > Panelboard&ld ctr ckt brkr,70 100A,bolt-on,10k AIC,1 P,120V CIV EL <16213 2744 > Pull box, ninged, steel, NEMA 12"W x 12"H x 6"D MIL EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4 USR EL <16869 0090 > Lighting Contactor USR EL <16820 3580 > Stilling well MIL EL <16325 4340 > MIL EL <16337 1700 >

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

0.83

373.99

UPB ID: UP01EA

ID: NAT01A

CREW

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

TIME 09:25:13

DETAIL PAGE

07. Perimeter Canal Structures

6.13 5.14 675.49 TOTAL COST UNIT COST 102.04 6295.07 1544.06 233.70 831.67 187.12 91.706 448.57 164.83 189.42 85.88 5298.43 6,295 517.66 2,460 1299.60 3,088 568.55 675 196.70 234 700.007 157,49 187 377.55 138.73 989 763.54 1,814 5.16 4.33 159.43 758 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 19.57 3210.00 354.06 1,683 871.23 2,070 363.73 0.00 29.48 514.97 1,224 107.00 26.75 LABOR EQUIPMNT MATERIAL 53.50 254 0.54 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 00.0 0.00 0 66.31 2088.43 163.59 428.38 1,018 4.11 204.82 68.30 81 0.00 128.01 152 248.57 591 270.55 321 111.98 105.93 4.63 503 1.29 75.69 3.19 8.33 4.00 4.85 4.23 4.00 0.09 OUTPUT MANHRS 0.00 2.50 5.26 0.08 1.94 0.04 0.31 0.30 0.25 1.88 00.0 0.40 0.48 0.59 0.63 0.21 27.78 31.25 EELEELEC1 EELEELEC1 BELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER19 EELER19 1.00 EA EELER19 EELER19 EELER19 EELER18 MSHMQ20 MSHMQ20 EELER19 4.00 EA 1.00 EA 1.00 EA 1.00 EA 2.00 EA 1.00 EA 1.00 EA 6.00 EA ΕÀ 128.00 EA 12.00 EA 2.00 EA 1.00 LS 4.00 MIL EL <16313 9650 > Motor starter & cont, NEWA 1, size 1, comb, rev, w/disc switch MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16338 5510 > Safety switch, nvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R CIV EL <16213 1710 > Cabinet, ninged, 36"W x 30"H x $12"\mathrm{D},$ sheet met, dbl dr, NEMA MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0--300~MCM,~splice or lug,USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, NOTE: Use for RIU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <13810 0001 > Limit and Rotary Switches USR EL <16153 0016 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #14 USR EL <13810 0002 > Push Button Stations USR EL <13810 5471 > Surge Suppressor conduit, etc. USR EL <16333 1401 > Photo-cell 07.01. Gate S3

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

DOLLARS

UPB ID: UP01EA

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07.01. Gate S3

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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07. Perimeter Canal Structures

54.64 55.75 708.21 736.09 910.17 708.21 10.61 TOTAL COST UNIT COST 848.03 280.58 1656.64 1620.70 157.49 524.68 270.65 45.99 619.55 713.77 3,392 1394.36 596.08 1,820 236.16 132.55 596.08 1,416 441.62 2,099 227.80 2,165 8.93 1364.11 111 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 9.68 497.55 1,182 246.10 0.00 EQUIPMNT MATERIAL 371.08 882 133.75 1,112 1134.20 454.75 1,081 322.07 151.62 535,00 636 0.00 0.00 57.54 137 68.12 00.0 0.00 0.00 0.00 0.00 0.00 17.71 00.0 0.00 42 4.30 LABOR 15.17 104.23 248 337.46 399.55 102.41 852 829.11 37.24 67.39 141.33 336 141.33 336 119.55 568 76.18 724 4.64 18,289 260.16 258 0.30 6.76 16.13 16 2.76 0.73 2.09 8.00 2.00 9.43 1.43 2.76 2.33 1.62 MANHRS 14 0.11 0.89 0.16 3.38 1.38 2.88 0.75 0.50 0.35 3.25 0.72 33.25 DUTPUT 0.72 1.08 2.88 2.00 EA EELEELEC2 2.00 EA EELEELEC2 EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER15 EELER15 EELER15 0.84 MLF EELER18 EELER19 EELER19 EELER22 8.00 EA EELER22 COETR23 ΕA 4.00 EA 2.00 EA 2.00 EA 4.00 EA EΑ EA 1.00 EA 4.00 EA 3320.00 LF 2.00 7.00 4.00 Ltg, HID fxtr,250W security, ext wall NOTE: Use for type D (250w Metal MIL EL <16234 0160 > Wiring device, concealed, switch, MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole MIL EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PP8) Excavate utility trench, 30" deep, 24" wide, 40 HP, chain NOTE: Use for fixture type B NOTE: Use for fixture type C Ltg fxtr, 175w Metal Halide (EH-1) Ltg fxtr, 175w Metal Halide (EH1) MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0 NOTE: Use for type E (E12) 120 volt, 20 amp, SPST USR EL <16617 3300 > Light Pole Foundation Halide EH9) USR EL <16865 0125 > Level Gage tapered USR EL <16611 0001 > B USR EL <16622 3010 > MIL EL <16622 3060 > MIL EL <02230 4020 >

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

07. Perimeter Canal Structures

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12.97 0.22 50586.44 17.95 0.17 TOTAL COST UNIT COST 1454.43 825.12 400.49 25083.87 4066.14 1099.34 300,783 300783.45 1090.80 126.26 50586.44 21112.59 25,084 3422.39 4,066 1224.16 337.08 10.92 389 925.29 694.48 660 0.17 126.26 631 17.95 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,663 0.00 0.00 000 18725.00 22,247 41730.00 3107.28 727.60 146 EQUIPMNT MATERIAL 953 125,345 126.26 631 00.0 00.0 1676.22 1,676 0.00 0.00 0.00 0.00 0.00 0.00 0.00 323.02 0.00 0.00 7.94 40 0.00 27,000 LABOR 775.83 294.28 2,453 315.11 374 122.79 7180.22 7,180 363.20 73 0.00 10.01 0.17 0.22 487 146,775 20 512.05 2064.57 15.15 0.15 6.15 2.40 130.08 0.01 10.00 39.68 2,562 0.05 13.89 00.0 0.01 MANHRS 16.67 90.0 0.16 90.0 OUTPUT 0.07 0.10 0.17 0.42 0.29 00.0 13.75 112.50 75.00 90.63 0.03 MLF EELEELEC1 1.00 EA EELEELEC1 0.80 MLF EELEELEC1 0.16 MLF EELEELECT EELEELECI 0.20 TON SIWRRODM4 ACMACEF11 ACMACEF 11 QUANTY UOM CREW ID EELER19 SIMSETA EELER3 68.00 LF ACARC1 ULABC7 N/A EA 30.00 EA ΕÀ EA 5.00 CY 5.00 CY 264.00 SF 264.00 SF 1.00 EA 1.00 1.00 1.00 MIL AA <03170 3000 > Forms in place, SOG, eage forms, wood, to 6" high, 4 use MIL EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, USR EL <16119 0990 > Wire, 600 volt, type THWN-THHN, #16 9 MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole USR AA <03450 0001 > Precast Concrete Building Note: Material price from Concrete Modular Systems 727-945-1756 ATIN: Frederick Kennedy MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, 4400 > Placing conc, slab on grade, thick, w/crane & bucket MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 USR EL <16513 2015 > Emergency Generator 20 KW M RSM AA <03326 0300 > Concrete ready mix, regul; weight 1:3:5 mix 4000 psi USR EL <16153 0010 > Cable Termination #1/0 copper, stranded, #8 float finish USR EL <16323 0001 > Terminal Box TOTAL Electrical 07.01.15. Equipment Building MIL AA <03372 07.01. Gate S3

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

n DOLLARS

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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07.01, Gate S3	QUANTY UOM CREW ID	CREW ID	DUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
MIL AA <03396 0150 > Finisning floors, monolithic, broom finish	264.00 SF	ACMACEF11	84,38	0.01	0.23	00.0	00.0	0.00	0.23	
MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building	5.00 CY	CODFB10N	47.50	0.03	1.07	0.77	16.26	0.00	18.10	18.10
TOTAL Equipment Building	1.00 JB		-	148	7,537	1,720	42,623	0	51,880	51880.06
07.01.95. Controls										
USR MC <15743 0001 > Dewatering IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 1,073	0.00	1056.00	1323.70
USR MC <15743 0001 > Level Control Gate IO Points	1.00 EA	N/A	0.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Upstream Downstream Level 10 Points	2.00 EA	N/A	0.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Emergency Generator IO Points	1.00 EA	N/A	0.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Telemetry To/From Gated Structure	1.00 EA	N/A	0.00	0.00	100.00	0.00	535.00 671	0.00	635.00	795.97
USR MC <15743 0001 > 16 VHF Data Radios Structure	1.00 EA	N/A	0.00	0.00	300.00	0.00	1605.00	0.00	1905.00	2387.92
AF MC <02230 2850 > Excavate utility trench, 36" qeep, 12" wide, 40 HP, chain trencher	32000 LF	CODBB54	90.63	0.01 352	0.47	0.13 5,235	00.00	0.00	0.60	0.75
USR MC <15743 0001 > Control Conduit & Cable	32000 LF	EELER18	30.35	0.11	3.00	0.00	4.28 171,679	0.00	7.28	9.13
TOTAL Controls	1.00 EA			3,830	140,964	5,235	179,727	0	325,925	325925.04
TOTAL Gate S3	1.00 EA		•	10,549	421,831	68,710	783,271	1,663	1,275,476	1275476

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

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0.70 25.73 4.28 0.17 0.22 0.25 OTHER TOTAL COST UNIT COST 3797.77 179,442 179441.69 1326.20 126.26 2972.61 4.28 0.22 0.70 3,798 21.07 2.49 1326.20 126.26 0.17 2,973 0.25 0 0.00 ! 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16.05 136,667 0.00 0.83 963.00 126.26 00.0 0.00 EQUIPMNT MATERIAL 1,62 0.00 0.00 0.00 0.00 0.00 0.31 0.00 1,695 13,823 3.40 LABOR 0.39 2,102 1.65 0.25 28,951 363.20 0.00 0.17 0.22 705 0.01 0.08 0.01 57 584 0.09 13.89 0.00 0.01 0.01 33 MANHRS 95.63 20.63 00.0 90.63 78.75 OUTPUT 288.50 43.75 0.29 112.50 260.00 SF ACMACEFI1 ACMACEFI1 0.96 TON SIWRRODM4 ACMACEF11 5455.00 CY CODEB12Y 6975.00 SF CPIDB40 QUANTY UOM CREW ID 10.00 CY ULABC6 92.00 SF ACARC1 N/A 10.00 CY 260.00 SF 260.00 SF JB 1.00 EA 1.00 EA 1.00 MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi USR TF <02161 0001 > Steel Sheet Pile Cutoff CIV AA <02228 0392 > Excavate, mdm soil, 3CY TOTAL Bridge Approach Slab 07.02.03.01.01. Bridge Approach Slab broom finish TOTAL Sheet Piling TOTAL Excavation 07.02.03.01. Slab On Grade 07.02.02. Sheet Piling 07.02.01. Excavation 07.02.03. Concrete 07.02. Gate S10 07.02. Gate S10

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

LARS

UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

07. Perimeter Canal Structures

DETAIL PAGE

TIME 09:25:13

4.28 0.17 0.22 0.25 2.49 0.25 4.28 0.17 0.22 OTHER TOTAL COST UNIT COST 1326.20 126.26 3166.16 1326.20 126.26 146098.50 2.49 1326.20 66 0.22 2.49 0.17 126.26 3,030 0.25 4.28 1326.20 83,736 126.26 56,312 0.22 0.25 146,098 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 963.00 0.00 0.00 0.00 0.00 EQUIPMNT MATERIAL 126.26 3,030 963.00 60,804 126.26 56,312 0.00 0.00 3,090 688 117,803 0.00 0.00 0.00 0.00 0.36 0.00 0.00 0.00 0.00 0.00 0.00 00.0 00.0 160 LABOR 0.22 0.25 1.65 363.20 28,135 00.0 0.17 0.00 0.22 363.20 0.01 0.29 0.01 0.01 0.09 0.00 0 0.09 OUTPUT MANHRS 13.89 0.01 0.01 13.89 0.00 0.01 1,189 20.63 0.29 00.0 90.63 43.75 20.63 0.29 00.0 90.63 112.50 78.75 43.75 112.50 78.75 0.05 TON SIWRRODM4 48.00 SF ACMACEFI1 ACMACEF11 3289.00 SF ACMACEFI1 ACMACEF11 ACMACEF11 ACMACEF11 63.14 TON SIWRRODM4 QUANTY UOM CREW ID ULABC6 446.00 CY ULABC6 14.00 SF ACARCI ACARC1 24.00 CY N/A N/A 1.00 CY 48.00 SF 48.00 SF 446.00 CY 3289.00 SF 3289.00 SF 824.00 SF 1.00 EA 1.00 MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use ö MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0010 > Finishing floors, monolithic, monolithic, MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish monolithic, MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 MIL AA <03396 0100 > Finishing floors, float finish MIL AA <03396 0100 > Finishing floors, float finish TOTAL Ladder Platform screed finish 07.02.03.01.02. Ladder Platform TOTAL Apron Slab 07.02.03.01.03. Apron Slab 07.02. Gate S10

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43RES: C43West Storage Reservoir - South Florida Water Management 30% Submittal

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TOTAL COST UNIT COST 152,237 152237.26 16.22 0.32 2.90 1241.93 16.22 0.32 2.90 126.26 62707.20 1241.93 126.26 64056.88 126,764 126764.08 1241.93 22,852 126.26 23,358 0.32 16.22 3,001 2.90 12,059 62,707 1241.93 23,982 126.26 24,621 16.22 3,163 0.32 2.90 64,057 OTHER 0.00 0.00 0 0.00 0.00 0.00 00.0 0 0.00 0.00 0.00 0.00 0 0 963.00 126.26 23,358 0.03 963.00 18,596 EQUIPMNT MATERIAL 123,157 0.00 0.81 44,606 126.26 24,621 0.00 0.03 0.81 91,033 46,427 164 0.00 0.00 6.21 0.00 0.00 1,149 0.00 00.0 6.21 0.00 0.00 1,211 2,360 LABOR 278.93 28,916 10.01 0.29 278.93 5,386 2.08 0.00 10.01 0.29 1,1902.08 16,419 16,953 33,371 10.67 0.11 1,226 0.58 0.58 OUTPUT MANHRS 10.67 0.01 99 829 0.00 0.01 0.11 1,627 798 0.38 0.00 67.50 54.38 0.38 0.00 13.75 54.38 13.75 67.50 07. Perimeter Canal Structures 18.40 TON SIWRRODM4 ACMACEF11 19.31 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID CLABC20 CLABC20 4162.00 SF ACARC2 3786.00 SF ACARC2 185.00 CY 185.00 CY 4120.00 SF 4481.00 SF 1.00 EA 195.00 CY 195.00 CY 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Slab On Grade TOTAL Abutment ptywood 07.02.03.02.01. Abutment TOTAL Walls TOTAL Pier 07.02.03.02.02. Pier 07.02.03.02. Walls 07.02. Gate S10

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

07.02. Gate S10

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 07. Perimeter Canal Structures PROJECT C43RES:

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0.32 3.14 49.36 OTHER TOTAL COST UNIT COST 1241.93 49.36 126.26 0.32 1241.93 7695.93 1241.93 3,639 1241.93 3,217 0.32 49.36 126.26 2,020 3.14 0.32 888 7,696 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 963.00 0.03 0.00 126.26 2,020 LABOR EQUIPMNT MATERIAL 0.57 4,804 963.00 2,822 0.03 0.00 126.26 2,273 0.00 0.00 0.00 21.84 0.00 0.00 0.00 21.84 0.00 349 278.93 722 0.29 27.52 2.57 2,543 278.93 0.29 0.00 00.0 27.52 1.60 0.00 10.67 OUTPUT MANHRS 0.01 0.14 10.67 1.60 0.00 129 0.01 0.38 67.50 5.00 00.0 0.38 5.00 28.13 67.50 2.59 TON SIWRRODM4 ACMACEF11 2.93 TON SIWRRODM4 ACMACEF 11 QUANTY UOM CREW ID 16.00 CY ULABC7 483.00 SF ACARC1 ULABC7 N/A 506.00 SF 16.00 CY 483.00 SF 18.00 CY 1.00 EA MIL AA <03372 0450 > Placing conc, columns, square/round, 12" thick, w/crane & bucket MIL AA <03372 0450 > Placing conc, columns, square/round, 12" thick, w/crane M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03142 5650 > Forms in place, columns, plywood, $12" \times 12", \ 4$ use TOTAL Abutments & bucket 07.02.03.03.01. Abutments 07.02.03.03.02. Piers 07.02.03.03. Columns

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

UPB ID: UP01EA CREW ID: NATO1A

3.14

3.14 8,549

0.00 0

0.57 5,397

0.00

2.57 2,758

0.14

28.13

ACARC1

506.00 SF

MIL AA <03142 5650 > Forms in place, columns, plywood, 12" x 12", 4 use

TOTAL Piers

1.00 EA

1.00 EA

TOTAL Columns

00.0

N/A

18.00 CY

393

139

287

8548.92

16244.86

16,245

0

10,201

742

5,301

269

126.26

126.26 2,273

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

07. Perimeter Canal Structures

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DETAIL PAGE

TIME 09:25:13

4.28 2.49 0.17 0.22 TOTAL COST UNIT COST 0.25 4.28 2.49 1326.20 126.26 0.17 1326.20 5593.31 5593.31 126.26 2,652 126.26 2,525 0.22 0.25 2.49 1326.20 45 5,593 126.26 758 0.17 0.22 1326.20 5,593 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.83 963.00 1,926 126.26 2,525 0.00 0.00 LABOR EQUIPMNT MATERIAL 00.0 0.00 0.83 0.00 0.00 4,506 963.00 126.26 758 0.36 0.00 0.00 0.00 0.00 0.00 0.36 0.00 00.0 0.00 0.00 0.00 0 0.00 3.93 1.65 0.00 0.17 0.22 0.25 310 45 1,080 1,080 3.93 0.00 0.17 0.22 0.29 0.09 00.0 OUTPUT MANHRS 0.01 0.01 0.01 0.29 0.09 0.00 0.01 48 48 0.01 20.63 43.75 0.29 00.0 90.63 20.63 43.75 0.29 0.00 112.50 78.75 112.50 2.00 TON SIWRRODM4 ACMACEF11 ACMACEF11 261.00 SF ACMACEFI1 0.96 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID 20.00 CY ULABC6 ACARC1 ULABC6 188.00 SF ACARC1 N/A 66.00 SF 261.00 SF 6.00 CY 20.00 CY 261.00 SF 6.00 CY 221.00 SF 1.00 EA 1.00 EA MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over $12^{\rm m},~4~{\rm use}$ MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12^n , 4 use M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps1 TOTAL Under Roller Gate 07.02.03.04.01. Under Roller Gate 07.02.03.05.01. Under Weir Gate TOTAL Weir 07.02.03.04. Weir 07.02.03.05. Sill 07.02. Gate S10

0.22

UPB ID: UP01EA

ID: NATO1A

CREW

90.63

221.00 SF ACMACEFI1

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

07, Perimeter Canal Structures

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0.25 0.32 2.90 2664.26 2664.26 2.05 2.98 0.17 TOTAL COST UNIT COST 1241.93 126.26 16.22 9.91 3129.52 3129.52 0.25 2,664 126.26 1,136 2,664 0.32 2.90 3,130 338 333 146 3,130 2,613 9.91 OTHER 0.00 0.00 0 0.00 0.00 0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00 1,839 963.00 126.26 0.03 EQUIPMNT MATERIAL 1,839 0.00 0.81 1,906 0.40 1.14 0.00 1,906 00.00 0.00 0.00 0.00 6.21 0.00 0.00 0.00 0.00 7 8 00.00 3.80 26 26 LABOR 0.25 823 278.93 128 10.01 0.29 6.12 823 00.0 2.08 1,167 1,167 1.83 333 0.01 0.00 MANHRS 39 0.11 0.09 0.36 39 10.67 0.58 0.01 9 9 0.01 OUTPUT 0.38 00.0 13.75 67.50 54.38 78.75 43.75 61.88 22.50 112.50 221.00 SF ACMACEFI1 0.46 TON SIWRRODM4 536.00 SF ACMACEFI1 1920.00 SF ACMACEFI1 QUANTY UOM CREW ID 9.00 CY CLABC20 CLABC20 ACARC2 165.00 SF ACARC1 ACARC2 9.00 CY N/A 381.00 SF 878.00 SF 1.00 EA 1.00 EA 1.00 EA 49.00 CY 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat place plywd 15'-20' nigh 4 use MIL AA <03372 5100 > Placing conc, walls, 12" thick, AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <03396 0010 > Finishing floors, monolithic, screed finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 07.02.03.07.01. Service Bridge Slab TOTAL Under Wear Gate plywood TOTAL Baffles TOTAL Baffles 07.02.03.06.01. Baffles TOTAL Sill 07.02.03.07. Elevated Slabs 07.02.03.06. Baffles ĄĘ 07.02. Gate S10

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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07.02. Gate S10	QUANTY UOM CREW ID	TUTTUO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
M RSM AA <03326 0300 > Concrete ready mix, regular			00	0		20 301			† 1 1 1 1 1
	49.00 CY N/A	00.00	0		0	6,187	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	8.06 TON SIWRRODM4	M4 0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
TOTAL Service Bridge Slab	1.00 EA		247	5,440	186	15,019	0	20,645	20645.33
07.02.03.07.02. Operating Platform									
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	135.00 SF ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' high 4 use	360.00 SF ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	990.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	24.00 CY CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	24.00 CY N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	4.00 TON SIWRRODM4	44 0.29	13.89	363.20 1,453	0.00	963.00 3,852	0.00	1326.20	1326.20
TOTAL Operating Platform	1.00 EA		120	2,653	91	7,348	0	10,092	10092.32
TOTAL Elevated Slabs	1.00 EA		367	8,094	277	22,367	0	30,738	30737.65
07.02.03.08. Breast Wall									
07.02.03.08.01. Breast Wall									
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.46 TON SIWRRODM4	14 0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	5.00 CY N/A	00.00	0.00	0.00	0.00	126.26 631	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	5.00 CY CLABC20	13.75	0.58	10.01	6.21	00.0	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch Voids	290.00 SF ACMACEFI1	1 67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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07.02. Gate \$10	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	270.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 220	00.00	2.90	2.90
TOTAL Breast Wall	1.00 EA		,	42	825	31	1,303	0	2,159	2159.05
TOTAL Breast Wall	1.00 EA		,	42	825	3.1	1 303			
07.02.03.09. Pile Cap				;	9	1	7,00	>	8CT '7	2159.05
07.02.03.09.01. Pile Cap										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.94 TO	0.94 ION SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	18.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	18.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	960.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	720.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2,90	2.90
TOTAL Pile Cap	1.00 EA		1	114	2,220	112	3,794	0	6,126	6126.24
TOTAL Pile Cap	1.00 EA		ı	114	2,220	112	3,794	0	6,126	6126.24
07.02.03.10. Seal Concrete										
07.02.03.10.01. Seal Concrete										
M RSM AA <03326 0100 > Concrete ready mix, regular weight, 2500 psi	912.00 CY	N/A	0.00	00.0	0.00	0.00	74.90	0.00	74.90	74.90
MIL AA <03372 4650 > Placing conc, slab on grade, over 6" thick, pumped	912.00 CY	CLABC20	23.13	0.35	5.95	3.69	0.00	0.00	9.64	9.64
TOTAL Seal Concrete	1.00 EA		1	315	5, 427	3,368	68,309	0	77,104	77104.04
TOTAL Seal Concrete	1.00 EA		,	315	7.07	3 368	3000			

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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07.02. Gate S10	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
TOTAL Concrete	1.00 EA			4,108	87,225	7,119	328,416	0	422,760	422,760 422760.25
07.02.04. Erosion Control System										
MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	117.00 CY	COFGB36C	54.38	0.09	3.39 396	4.02	25.96	0.00	33.37	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	700.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1,93
MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	350.00 CY	CODEB3A	9.75	0.51	10.53 3,686	6.14 2,147	24.71	0.00	41.37	41.37
TOTAL Erosion Control System	1.00 JB		,	204	4,367	2,721	12,651	0	19,739	19738.97
07.02.05. Gates								-		
USR AA <05150 0001 > Roller Gate 14' x 8' CI	1.00 EA	SIWSE21	0.01	919.54	54309.62 54,310	11652.80 11,653	78110.00	0.00	144072.43	144072.43
USR AA <05150 0001 > Weir Gate 10' x 8' SST	2.00 EA	SIWSE21	0.02	470.59	27793.75 55,587	5963.49 11,927	42800.00	0.00	76557.24	76557.24
TOTAL Gates	1.00 EA		•	1,861	109,897	23,580	163,710	0	297,187	297186.91
07.02.06. Rip Rap										
MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, Large areas	190.00 CY	COFGB36C	54.38	0.09	3.39	4.02	25.96	0.00	33.37	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	758.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93
MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	379.00 CY	CODEB3A	9.75	0.51	10.53	6.14	24.71	0.00	41.37	41.37
TOTAL Rip Rap	1.00 EA		•	227	4,944	3,201	15,342	0	23,487	23486.88
07.02.11. Blectrical										
USR EL <16865 0110 > Control Panel	1.00 EA	EELER19	0.08	30.12	1548.34	0.00	8560.00	0.00	10108.34	12009.72
USR EL <16119 0001 > RTU w/PLC	1.00 EA	EBLEELEC1	0.03	36.90	1889.48	00.0	4280.00 5,085	0.00	6169.48 7,330	7329.96
LABOR ID: C43RES EQUIP ID: C43RES	Currency	Currency in DOLLARS					CREW I	CREW ID: NAT01A	UPB ID: UP01EA	UP01EA

07.02. Gate S10

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OTHER TOTAL COST UNIT COST 7829.25 7829.25 831.67 628.93 187.12 687.53 368.80 948.81 1582.10 685.56 907.16 280.58 910.93 1099.34 233.70 6589.72 7,829 6589.72 15,658 700.00 578.68 310.41 2,582 798.59 1331.62 15,821 1,099 157,49 577.02 686 236.16 3,648 41 187 196.70 234 529.36 907 0.00 700.007 832 0.00 0.00 0.00 00.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3745.00 0.00 3745.00 8,899 LABOR EQUIPMNT MATERIAL 363.80 29.48 391.89 6,053 181.90 214.00 2,543 903.35 460.10 2,066 332.77 802.50 128.40 514.97 133.75 0.00 0.00 0.00 0.00 0.00 0.00 85.16 62.38 17.03 0.00 0.00 0.00 0.00 00.0 2844.72 3,380 2844.72 6,760 128.01 152 0.00 165.56 2,885 128.51 499.44 365.89 99.89 119 186.79 102.41 1,582 433.94 122.79 68.30 81 295 248.57 55.56 56 55.56 2.50 00.0 00.9 3.63 OUTPUT MANHRS $\frac{10.00}{100}$ 7.33 2.00 2.00 8.47 2.40 4.85 1.33 0.02 0.02 0.00 0.55 0.40 0.69 1.00 09.0 0.82 3.00 0.50 0.21 0.12 0.42 1.88 1.00 EA EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 **EELEELEC1** EELEELEC1 EELEELEC1 QUANTY UOM CREW ID 0.07 MLF EELER18 EELER19 EELER15 EELER15 EELER19 EELER15 2.00 EA 1.00 EA 13.00 EA 7.00 EA 1.00 EA EA 1.00 EA 10.00 EA 10.00 EA 1.00 EA ΕĄ 1.00 LS 13.00 EA 1.00 1.00 USR EL <16119 0002 > Hoist Starters & Remote Controls USR EL <16119 0002 > Actuator Starter & Remote Cntrls MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 160 A, socket, 1 position EL <16622 5230 > HID fxtr, floodlight, 250W high 30 press sodium Lamp, encl, heavy USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V MIL EL <16617 1040 > Lighting, poles, one 6' arm, T, roadway, galv steel, rnd, USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting USR EL <16711 0011 > Meter Connection by Utility USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 USR EL <16617 0002 > Lighting, poles, wood, 20' NOTE: Use for Meter Pole USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, NOTE: Use for Panel L USR EL <16611 4100 > Compact Fluorescent otagonal, conc Controller USR EL <16333 1401 > Photo-cell ΑF

UPB ID: UP01EA

CREW ID: NAT01A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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07. Perimeter Canal Structures

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07.02. Gate S10		QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
						1				1
	USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting controller	1.00 EA ULABC6	0.75	8.00	107.95	9.87	107.00	0.00	224.82 267	267.11
	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	1430.00 LF COETR23	33,25	0.11	4.64	4.30	00.0	0.00	8.93 15,179	10.61
	MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12	0.22 MLF EELEELEC1	:1 0.14	7.25	371.05 95	0.00	69.02	0.00	440.07	522.84
	MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10	3.24 MLF EELEELEC1	1 0.13	8.00	409.64	0.00	105.93	0.00	515.57	612.55
	MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6	1.55 MLF EELEELEC1	1 0.08	12.35	632.16	0.00	293.72 541	0.00	925.88	1100.03
	MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0	0.08 MLF EELEELEC1	1 0.04	24.39	1248.90	0.00	1049.67	0.00	2298.57	2730.93
	MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex	1.00 EA EELEELECI	3.38	0.30	15.17	0.00	32.53	0.00	47.70	56.67
	USR EL <16153 0014 > Cable Termination #12	50.00 EA EELER19	31.25	0.08	4.11 244	00.00	0.27	0.00	4.38	5.20
	USR EL <16153 0013 > Cable Termination #10	90.00 EA EELER19	27.78	60.0	4.63	0.00	0.54	0.00	5.16	6.13
	USR EL <16153 0012 > Cable Termination #6	8.00 EA EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0010 > Cable Termination #1/0	12.00 EA EELER19	16.67	0.15	7.71	0.00	3.21	0.00	10.92	12.97
	MIL EL <16711 0500 > Elec & tel sitewk, 2'x2'x2'-6" D, hand holes, precast conc, W/conc cov	1.00 EA BELER3	0.31	7.99	415.55	65.02	321.00 381	0.00	801.57	952.34
	MIL EL <16333 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2	2.00 EA EELEELECI	1 0.41	2.42	123.98 295	0.00	269.11 639	0.00	393.09 934	467.03
	MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R	1.00 EA EELEELEC1	1 0.31	3.20	163.86 195	0 0	354.06 421	0.00	517.92 615	615.34
	USR EL <16232 2483 > Wiring device, receptacie, gnd fault intrpt, 20 amp, duplex WP	1.00 EA EELEELECI	1 2.89	0.35	17.70	0.00	53.50	0.00	71.20	84.59

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

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USN EL (1613 0011 > Cable Fermination 64 6.00 km RELERIS 20.49 1.1 44 0.00 1.1 1.4 0.00 1.1 1.4 0.00 1.1 1.4 0.00 1.1 1.4 0.00 1.1 1.4 0.00 1.1 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.4 0.00 1.4 0.00 1.4 0.00 1.4 0.00 1.4 0.4	07.02. Gate S10		QUANTY UOM	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
14.00 EA ERLERI9 25.00 0.10 5.14 0.00 0.91 0.91 0.00 0.91 0.00 0.91 0	-				20.83	0.12	6.17	0.00	1.12	00.0	7.29	8.66
	_				25.00	0.10	5.14 86	0.00	0.91	0.00	6.05	7.19
Hart St.00 EA EELERIS 31.25 38 2,335 0.00 152 0.00 2,487 St.00 EA EELERIS 31.25 0.06 4.11 0.00 0.15 0.00 4.27 St.00 EA EELERIEC 15.63 0.06 3.28 0.00 0.16 0.00 4.71 St.00 LB EELERIEC 11.63 0.05 4.40 0.00 2.18 0.00 4.47 St.00 LB EELERIEC 11.63 0.05 4.40 0.00 3.49 0.00 6.59 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 0.15 0.00 8.61 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 1.794 0.00 3.47 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 1.794 0.00 3.47 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 1.794 0.00 3.47 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 1.794 0.00 2.18 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 1.794 0.00 2.18 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 0.57 0.00 2.18 St.00 LB EELERIEC 22.50 0.04 2.28 0.00 0.57 0.00 2.18 St.00 LB EELERIEC 32.50 0.04 2.28 0.00 0.57 0.00 2.18 St.00 LB EELERIEC 32.50 0.04 2.28 0.00 0.57 0.00 0.58 St.00 LB EELERIEC 32.50 0.04 2.28 0.00 0.57 0.00 0.58 St.00 LB EELERIEC 32.50 0.04 2.28 0.00 0.57 0.00 0.59 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.00 0.00 0.00 0.00 0.00 St.00 LB EELERIEC 32.50 0.0					27.78	0.09	4.63	0.00	0.80	0.00	5.43	6.45
S4.00 EA ELLERI9 31.25 0.08 4.11 0.00 0.16 0.00 4.274 Januari	-				31,25	0.08	4.11	0.00	0.27	0.00	4.38	5.20
10 1 1 1 1 1 1 1 1 1	-				31.25	0.08	4.11	0.00	0.16	0.00	4.27	5.08
1911 1911 1911 1911 1912 1912 6,233 0.00 3.49 0.00 6,533 0.00 3.49 0.00 0.331 0.311 0.10 0.10 0.48 0.313 0.00 0.314 0.00 0.	~	3/4" dia, teel rigid			15.63	0.06	3.28	0.00	1.43	00.00	4.71	5.60
Poc. of Le Ellebelect 10.00 9 5.12 0.00 3.49 0.00 0.92 0.91 3200.00 Le Ellebelect 32.50 0.03 1.58 0.00 0.57 0.00 0.57 1260.00 Le Ellebelect 22.50 0.04 2.28 0.00 1.794 0.00 0.471 3300.00 Le Ellebelect 15.63 5 3.28 0.00 1.794 0.00 0.471 2500.00 Le Ellebelect 22.50 0.04 2.28 0.00 1.794 0.00 0.471 2500.00 Le Ellebelect 22.50 0.04 2.28 0.00 1.28 0.00 0.57 2500.00 Le Ellebelect 32.50 0.03 1.58 0.00 0.55 0.00 0.57 3400.00 Le Ellebelect 10.00 2.14 0.00 0.51 0.00 0.57 0.00 0.57 3400.00 Le Ellebelect 11.63 0.09 4.40 0.00 0.34 0.00 0.57 3400.00 Le Ellebelect 32.50 0.03 1.41 0.00 0.39 0.00 0.55 3400.00 Le Ellebelect 32.50 0.03 1.41 0.00 0.57 0.00 0.55 3400.00 Le Ellebelect 32.50 0.03 1.58 0.00 0.57 0.00 0.55 3400.00 Le Ellebelect 32.50 0.03 1.58 0.00 0.57 0.00 0.57 0.00 0.55 3400.00 Le Ellebelect 32.50 0.03 1.58 0.00 0.57 0.00 0.57 0.00 0.57 0.00 0.57 3400.00 Le Ellebelect 32.50 0.03 1.58 0.00 0.57	~	EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv		EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
		EL <16018 0580 > Conduit to 15' H,1.5" couplings only, steel	90.00 LF	EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
1260.00 LF ELLEELECT 22.50 56 3,407 0.00 1.20 0.00 3.47 0.00 1.794 0.00 3.47 0.00 1.794 0.00 3.47 0.00 0.1794 0.00 0.2711 0.00 0.1794 0.00 0.2711 0.00 0.175 0.00 0.175 0.00 0.175 0.00 0.2718 0.00 0.2718 0.00 0.2718 0.00 0.2718 0.00 0.2718 0.00 0.2718 0.00 0.2718 0.00 0.2714 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	~	EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, W/coupling		EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
PUC S30.00 LF EELEBELECI 15.63 0.06 3.28 0.00 1.43 0.00 4.71 PUC 530.00 LF EELEBELECI 22.50 0.04 2.28 0.00 1.20 0.00 3.47 PUC 530.00 LF EELEBELECI 22.50 24 1,433 0.00 0.57 0.00 2,188 PUC 900.00 LF EELEBELECI 32.50 28 1,685 0.00 0.57 0.00 2,188 PUC 20.00 LF EELEBELECI 10.00 2 1,685 0.00 3.49 0.00 2,191 S13 20.00 LF EELEBELECI 11.63 0.09 4.40 0.00 2.18 0.00 6.59 S13 70.00 LF EELEBELECI 36.25 2 117 0.00 0.39 0.00 1.80 PVC 1490.00 LF EELEBELECI 32.50 46 2,789 0.00 0.39 0.00 1.80 S00 1490.00 LF		EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, W/coupling		EELEELEC1	22.50	0.04	2.28	0.00	1,20	0.00	3.47	4.13
PUC 530.00 LF ELLELECT 22.50 24 1,433 0.00 1.20 0.00 2,188 PUC 900.00 LF ELLELECT 32.50 0.03 1.58 0.00 0.57 0.00 2,188 PUC 900.00 LF ELLELECT 10.00 2 1,685 0.00 3.49 0.00 2,214 32.14 0.00 LF ELLELECT 11.63 0.09 4.40 0.00 2.18 0.00 6.59 PUC 900.00 LF ELLELECT 11.63 0.09 4.40 0.00 2.18 0.00 6.59 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 2 1.17 0.00 0.39 0.00 1.80 PUC 900.00 LF ELLELECT 36.25 46 2,789 0.00 1.004 0.37 0.00 3.793	es.	EL <16018 0520 > Conduit to 15' H, couplings only, st		BELEELECI	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
PUC 900.00 LF ELLELECT 32.50 28 1.685 0.00 0.57 0.00 2.14 all solution LF ELLELECT 32.50 28 1.685 0.00 0.657 0.00 2.291 but all solution LF ELLELECT 32.50 28 1.685 0.00 0.57 0.00 2.291 c.1	4	EL <16712 1050 > Conduit, direct burial only, sched 40, 2" dia, W/coupling		EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
0.10 LF EELEELECT 10.00 C.10 5.12 0.00 3.49 0.00 8.61 205 349 0.00 8.61 205 349 0.00 8.61 205 349 0.00 8.61 205 304 30 0.00 8.61 205 304 304 304 3.793 30.00 LF EELEELECT 11.63 0.09 4.40 0.00 2.18 0.00 6.59 304 304 3.793 30.00 LF EELEELECT 36.25 2 117 0.00 0.37 0.00 1.80 PVC 1490.00 LF EELEELECT 32.50 46 2,789 0.00 1,004 0 3,793	-	EL <16712 1030 > Conduit, direct burial only, sched 40, 1" dia, w/coupling		EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
21 5.00 LF EELEELEC1 11.63 0.09 4.40 0.00 2.18 0.00 6.59 PVC 70.00 LF EELEELEC1 36.25 2 117 0.00 0.37 0.00 1.80 PVC 1490.00 LF EELEELEC1 32.50 4.6 2,789 0.100 0.57 0.00 2.14	<u>~</u>	EL <16018 0580 > Conduit to 15' H,1.5" couplings only, steel		EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
PVC 19 70.00 LF EELEELEC1 36.25 2 117 0.00 0.39 0.00 1.80 150 PVC 19 0.00 0.37 0.00 1.80 150 150 170 180 170 180 170 180 170 180 170 180 170 180 170 180 170 180 170 180 18	4	<16018 0540 > Conduit to 15' H, couplings only, st		EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
PVC 1490.00 LF EELEELECI 32.50 46 2,789 0 1,004 0 3,793	Δ 1	Conduit, direct burial only, sched 40, 3/4" dia, w/couplir	70.00 LF	EELEELEC1	36.25	0.03	1.41	0.00	0.39	0.00	1.80	2.14
	۷	PVC	1490.00 LF	BELEBLEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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TIME 09:25:13

ESSI EL (1613 0200 NILEA, 100 VOLD, Type THRN-THIN) CIVE L (1613 0200 Calle German Color) (12-4) CIVE L (1613 0200 Calle German Color) (12-4) CIVE L (1613 0200 Calle German Color) (12-4) CIVE L (1613 0200 Calle German Color) (12-4) MILE L (1613 02	07.02. Gate S10		QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
HW, 5.57 MLF EELEELECT 0.13 8.00 409.64 0.00 105.93 0.00 515.57 170 0.00 35.70 0.00 11.338 1.00 EA EELEELECT 0.13 8.00 409.64 0.00 10.70 0.00 51.537 170 0.00 10.70 0.00 11.338 170 0.00 10.70 0.00 11.338 170 0.00 10.70 0.00 11.34 173 170 0.00 10.70 0.00 11.34 17		ty #14			6.14	314.14	0.00	44.19	0.00	358.33	425.73
HIM, 5.57 MLF EBLEELECI 0.13 45 2,713 0.00 105.93 0.00 5.15.57 15 - 2.00 EA EBLEELECI 1.25 0.80 40.96 0.00 10.70 0.00 51.66 10 - 2.00 EA EBLEELECI 1.00 1.22 6.30 60 0.00 428.54 0.00 1.528 10 - 2.00 EA EBLEELECI 0.08 12.32 630.60 0.00 428.54 0.00 1.528 11 00 EA EBLEELECI 0.04 4.20 215.15 0.00 293.18 0.00 2.893.3 HM, 0.59 MLF EBLEELECI 0.04 24.39 1248.90 0.00 1049.67 0.00 2.893.57 HM, 0.50 MLF EBLEELECI 0.04 7.25 371.05 0.00 69.02 0.00 3.458 6.6 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 3.458 6.6 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 3.458 6.6 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 2.7139 6.7 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 2.7139 6.8 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 2.7139 6.9 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 2.7139 6.1 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 2.7139 6.1 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 27.159 6.1 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 17.509 6.1 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 17.509 6.1 MLF EBLEELECI 0.14 7.25 371.05 0.00 69.02 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0.00 17.509 6.1 MLF EBLEELECI 0.15 0		<pre><16153 0320 > Cable termn to 600V</pre>	EA	1.24	1.05	54.01	0.00	39.80 567	0.00	93.82	111.46
Note of the properties Note of the propert		EL <16119 1250 > Wire, 600 volt, type copper, stranded, #10		0.13	8.00	409.64	0.00	105.93	0.00	515.57	612.55
Note Color		EL <16326 0100 > Panelboard&Ld ctr ckt brkr,15 50A,bolt-on,10k AIC,1 P,120V	EA	1.25	0.80	40.96	0.00	10.70	0.00	51.66	61.38
TT. 1.00 EA ERLERLECI 0.08 12.32 630.60 0.00 428.54 0.00 1,258 1.00 EA ERLERLECI 0.24 4.20 215.15 0.00 293.18 0.00 508.33 HN, 0.59 MLF ERLERLECI 0.04 24.39 1248.90 0.00 1049.67 0.00 2258.87 HN, 0.16 MLF ERLERLECI 0.08 12.35 632.16 0.00 293.72 0.00 2258.88 HN, 6.62 MLF ERLERLECI 0.14 7.25 371.05 0.00 69.02 0.00 440.07 0.02 MLF ERLERLECI 0.14 7.25 371.05 0.00 69.02 0.00 255.88 d, 21.00 EA ERLERLECI 0.30 1.59 66.31 0.00 293.72 0.00 256.15 d, 1.00 EA ERLERLECI 0.46 2.76 11.654 0.00 19.57 0.00 85.88 A 4, 1.00 EA ERLERLECI 0.63 1.60 81.93 0.00 69.67 0.00 1180.57 1.00 EA ERLERLECI 0.46 6 394 0.00 69.85 0.00 180.57 1.00 EA ERLERLECI 0.46 6 394 0.00 69.89 0.00 180.57 1.00 EA ERLERLECI 0.46 6 69.99 0.00 69.98 0.00 6944		EL <16326 0310 > Panelboard&1d ctr ckt brkr,70 100A,bolt-on,10k AIC,1 P,120V	EA		1.00	51.21	0.00	20.33	0.00	71.54	84.99
Harrow H		EL <16325 4340 > Panelboard assem, main lugs, 100A, 1 120/240V NOTE: Use for dist panel L	EA		12.32	630.60 749	0.00	428.54 509	00.00	1,258	1258.36
HN, 0.59 MLF EELEELECT 0.04 14 868 0.00 1049.67 0.00 2298.57 2 HN, 0.16 MLF EELEELECT 0.08 12.35 632.16 0.00 293.72 0.00 925.88 2 HN, 0.16 MLF EELEELECT 0.08 12.35 632.16 0.00 293.72 0.00 925.88 174 1 HN, 6.62 MLF EELEELECT 0.14 48 2.916 0.0 69.02 0.00 440.07 3.459 40.00 MLF EELEELECT 0.14 48 2.916 0.00 360.59 0.00 526.15 40.00 440.07 48 2.916 0.00 360.59 0.00 526.15 40.00 440.07 48 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4		vy duty, d, 100 A	Ą		4.20	215.15	0.00	293.18	00.00	508,33	603.94
HN, 6.62 MLF ELLELLECI 0.08 12.35 632.16 0.00 293.72 0.00 925.88 174 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0	MLF	0.04	24.39	1248.90 868	0.00	1049.67	0.00	2298.57	2730.93
HN, 6.62 MLF ELLELECI 0.14 48 2,916 0.00 69.02 0.00 440.07 3,459 0.00 MLF ELLELECI 0.14 48 2,916 0.00 360.59 0.00 3,459 0.00 526.15 0.00 MLF ELLERIS 0.55 0.00 165.56 0.00 360.59 0.00 526.15 0.00 526.15 0.00 MLF ELLERIS 1.94 1.29 66.31 0.00 19.57 0.00 85.88 0.00 MLF ELLELECI 0.63 1.60 MLF 0.00 19.57 0.00 151.60 180.57 1.00 MLF ELLELECI 0.63 2.16 110.59 0.00 69.98 0.00 180.57 0.00 180.50 0.00 180.57 0.00 180.50 0.00 180.50 0.00 180.50 0.00 180.50 0.00 180.50 0.00 180.50 0.00 180.50 0.00 180.50 0.00 180.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00		MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranged, #6	MLF	0.08	12.35	632.16	0.00	293.72	0.00	925.88	1100.03
d, 21.00 EA EELERIECT 0.05 0.05 0.00 360.59 0.00 526.15 d, 21.00 EA EELERIS 1.29 66.31 0.00 19.57 0.00 85.88 A 4, 1.00 EA EELEELECI 0.63 27 1,654 0.00 69.67 0.00 151.60 1, 3.00 EA EELEELECI 0.46 6 394 0.00 69.98 0.00 1800.57 1, 3.00 EA EELEELECI 0.46 6 394 0 249 0.00 644		MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12	MLF		7.25	371.05	0.00	69.02	0.00	440.07	522.84
a4, 1.29 66.31 0.00 19.57 0.00 85.88 A 4, 1.00 EA ELEELECI 0.63 2.16 110.59 0.00 69.67 0.00 151.60 1, 3.00 EA ELEELECI 0.46 6 394 0.00 69.98 0.00 180.57		7	MLF	0.55	6.00	165.56	0.00	360.59	0.00	526.15	625.11
A 4, 1.00 EA EELEELECI 0.63 2 97 0.00 69.67 0.00 151.60 180 180 180 180 180 180 180 180 180 18		EL <16181 6310 > Grounding, gna con 4/0-300 MCM, splic cadweld	EA	1.94	1.29	66.31	0.00	19.57 488	0.00	85.88	102.04
1, 3.00 EA EELEELECI 0.46 6 394 0 249 0 644		steel, NEMA	EA	0.63	1.60	81.93	0.00	69.67	0.00	151.60	180.11
		MIL EL <16213 0380 > Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D		0.46	2.16	110.59 394	0.00	69.98	0.00	180.57	214.54

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

07.02. Gate S10

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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DETAIL PAGE

OTHER

EQUIPMNT MATERIAL

LABOR

MANHRS

OUTPUT

QUANTY UOM CREW ID

07. Perimeter Canal Structures

168.87 22292.35 373.99 233.70 TOTAL COST UNIT COST 102.04 6295.07 615.03 1544.06 675.49 831.67 187.12 907.16 448.57 18763.03 142.13 85.88 5298.43 6,295 517.66 2,460 1299.60 3,088 568.55 675 3.47 196.70 234 700.007 374 763.54 377.55 157.49 187 0.00 0.00 0.00 0.00 0.00 0.00 00.00 0.00 0.00 0.00 700.00 0.00 0.00 0.00 44.60 7490.00 160.50 19.57 23 3210.00 354.06 871.23 2,070 363.73 432 128.40 153 0.00 29.48 514.97 107.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 97.53 116 11273.03 26,787 2088.43 2,481 163.59 2.28 66.31 428.38 1,018 183 204.82 68.30 81 0.00 128.01 248.57 270.55 321 154.28 1.90 219.30 0.04 75.69 1.29 5.26 3.19 8.33 1.33 4.85 3.00 4.00 0.00 2.50 22.50 0.83 0.53 0.01 1.94 0.04 0.30 0.25 1.88 00.0 0.40 0.48 0.31 0.21 EELEELEC1 EELEELEC1 EELEELEC1 BELEELEC1 EELEELEC1 EELEELEC1 EELER19 EELER19 EELER19 1.00 EA EELER18 EELER19 1.00 EA EELER19 1.00 EA ΕÀ EA EA 555.00 LF 1.00 EA 4.00 EA 2.00 EA ΕÀ EA EA 1.00 LS 1.00 2.00 1.00 1.00 2.00 1.00 MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16313 9650 > Motor starter & cont, NEWA 1, size 1, comb, rev, w/disc switch MIL EL <16338 4400 > Safety switch, nvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16213 0330 > Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6" MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA. 3R MIL EL <16181 6310 > Grounding, gna conductor bona, 4/0-300 MCM, splice or lug, CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H > 12"D, sheet met, db1 dr, NEMA 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, NOTE: Use for RTU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <16869 0090 > Lighting Contactor USR EL <13810 5471 > Surge Suppressor > Stilling well conduit, etc. USR EL <16333 1401 > Photo-cell cadweld USR EL <16820 EL <16000

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

ID: NAT01A

CREW

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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TIME 09:25:13

07.02. Gate S10		QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
			; ; ; ; ; ; ;				1	 			
	USR EL <13810 0001 > Limit and Rotary Switches	6.00 EA	MSHMQ20	0.59	4.23	111.98	0.00	26.75	0.00	138.73	164.83
	USR EL <13810 0002 > Push Button Stations	4.00 EA	MSHMQ20	0.63	4.00	105.93	0.00	53.50	0.00	159.43	189.42
	USR EL <16153 0016 > Cable Termination #10	128.00 EA	EELER19	27.78	0.09	4.63 704	0.00	0.54	0.00	5.16	6.13
	USR EL <16153 0014 > Cable Termination #14	12.00 EA	EELER19	31.25	0.08	4.11	0.00	0.21	0.00	4.33	5.14
	AF EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex	4.00 EA	EBLEBLEC1	3,38	0.30	15.17	0.00	30.82	0.00	45.99	54.64
	MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST	2.00 EA	EELEELEC1	1.38	0.73	37.24	00.00	9.68	0.00	46.92	55.75
	MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered	2.00 EA	EELER15	2.88	2.09	104.23	17.77	497.55	0.00	619.55	736.09
	MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, tapered	2.00 EA	EELER15	0.89	6.76	337.46	57.54	371.08	0.00	766.07	910.17
	USR EL <16617 3300 > Light Pole Foundation	4.00 EA	EELER15	0.75	8.00	399.55 1,899	68.12	246.10	0.00	713.77	848.03
	USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole	7.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
	MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0	0.84 MLF	· EELER18	0.35	9.43	260.16	0.00	1134.20	0.00	1394.36	1656.64
	USR EL <16865 0125 > Level Gage	1.00 EA	EELER19	0.16	16.13 16	829.11 985	0.00	535.00	0.00	1364.11	1620.70
	MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8)	4.00 EA	EELER22	3,25	1.43	67.39	0.00	65.16 310	0.00	132.55 630	157.49
	USR EL <16611 0001 > Ltg fxtr, 175w Metal Halide (EH-1)	2.00 EA	EELEELEC2	0.72	2.76	141.33	0.00	454.75	0.00	596.08	708.21
	NOTE: Use for fixture type B										
	B USR EL <16622 3010 > Ltg fxtr, 175w Metal Halide (EH1) NOTE: Use for fixture type C	2.00 EA	EELEELEC2	0.72	2.76	141.33 336	0.00	454.75 1,081	0.00	596.08	708.21

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Almy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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07.02. Gate S10		QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	JNIT COST
MIL	MIL EL <16622 3060 > Ltg, HID fxtr,250W security, ext wall NOTE: Use for type D (250w Metal Halide EH9)	4.00 EA	EELER19	1.08	2.33	119.55	00.0	322.07	0.00	441.62	524.68
MIL	EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12)	8.00 EA	EELER22	2.88	1.62	76.18 724	0.00	151.62	0.00	227.80 2,165	270.65
MIL	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain 3 trencher	3320.00 LF	COETR23	33.25	358	4.64	4.30 16,951	0.00	0.00	8,93 35,240	10.61
MIL	EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4	0.03 MLF	F BELEELEC1	0.07	15.15	775.83	0.00	448.33	0.00	1224.16	1454.43
MIL EL	EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8	0.80 MLF	F BELBELEC1	0.10	10.00	512.05	0.00	182.44	00.00	694.48	825.12
USR EL	EL <16119 0990 > Wire, 600 volt, type THWN-THHN, #16	0.16 MLF	FELEELEC1	0.17	5.75	294.28	0.00	42.80	0.00	337.08	400.49
USR	EL <16153 0010 > Cable Termination #1/0	30.00 EA	EELER19	16.67	0.15	7.71 275	0.00	3.21	0.00	10.92	12.97
USR EL	EL <16513 2015 > Emergency Generator 20 KW	1.00 EA	EELER3	90.0	39.68	2064.57	323.02 384	18725.00	0.00	21112.59	25083.87
MIL	MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole	1.00 EA	SELEBLEC1	0.16	6.15	315.11	0.00	3107.28	0.00	3422.39	4066.14
USR	USR EL <16323 0001 > Terminal Box	1.00 EA	EELEELEC1	0.42	2.40	122.79	0.00	802.50	0.00	925.29	1099.34
	TOTAL Blectrical	1.00 EA			2,574	147,488	27,000	139,965	1,663	316,116	316116.00
07.02.15.	07.02.15. Equipment Building										
USR	USR AA <03450 0001 > Precast Concrete Building Note: Material price from Note: Material Price From Concrete Modular Systems 727-945-1756 AITN: Frederick Kennedy	1.00 EA	SIWSE7A	90.0	130.08 130	7180.22	1676.22	41730.00	0.00	50586,44 50,586	50586.44
MIL	MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use	68.00 LF	ACARC1	75.00	0.05	96.0	0.00	0.51	0.00	1.48	1.48

EQUIP ID: C43RES LABOR ID: C43RES

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07.02. Gate \$10	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
		; ; ; ;			i i i i	1	; ; ; ; ;			1
MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.20 TON	SIWRRODM4	0.29	13.89	363.20 73	0.00	727.60	0.00	1090.80	1090.80
M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi	5.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 4400 > Placing conc, slab on grade, 6" thick, w/crane & bucket	5.00 CY	ULABC7	13.75	0.58	10.01	7.94	0.00	0.00	17.95	17.95
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	264.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	264.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	264.00 SF	ACMACEF11	84.38	0.01	0.23	0.00	0.00	0.00	0.23	0.23
MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building	5.00 CY	CODFB10N	47.50	0.03	1.07	0.77	16.26	0.00	18.10	18.10
TOTAL Equipment Building	1.00 JB		,	148	7,537	1,720	42, 623	0	51,880	51880.06
07.02.95. Controls										
USR MC <15743 0001 > Dewatering Gate IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 1,073	0.00	1056.00	1323.70
USR MC <15743 0001 > Level Control Gate IO Points	2.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 2,146	0.00	1056.00	1323.70
USR MC <15743 0001 > Upstream Downstream Level IO Points	2.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 2,146	0.00	1056.00	1323.70
USR MC <15743 0001 > Emergency Generator IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Telemetry To/From Gated Structure	1.00 EA	N/A	00.00	0.00	100.00	0.00	535.00 671	0.00	635.00	795.97
USR MC <15743 0001 > 16 VHF Data Radios Structure	1.00 EA	N/A	0.00	0.00	300.00	0.00	1605.00	0.00	1905.00	2387.92
AF MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HF, chain trencher	10500 LF	CODBB54	90.63	0.01	0.47	0.13	0.00	0.00	0.60	0.75

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

:25:13 E 201	r cosr			9.13	853.82	1429262
TIME 09:25:13 DETAIL PAGE 201	QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNI MATERIAL OTHER TOTAL COST UNIT COST		7 28	95,818	114,854 114853.82	
	OTHER	1	0	0	0	1,663
	MATERIAL		4.28	0 56,332	65,453	11,019 440,195 82,578 904,826 1,663 1,429,262
ent	LABOR EQUIPMNT MATERIAL		00.00	0	1,257 47,683 1,718	82,578
er Managem	LABOR	1	3.00	39,485	47,683	11,019 440,195
lorida Wat	OUTPUT MANHRS		0.11		1,257	11,019
Jineers - South El ructures	OUTPUT			30,35		
rmy Corps of Enrage Reservoir 30% Submittal imeter Canal St.	CREW ID	 		EELER18		
C43	QUANTY UOM CREW ID			10500 LF EELER18	1.00 EA	1.00 EA
PROJECT C43RES:			USR MC <15743 0001 > Control Conduit & Cable		TOTAL Controls	TOTAL Gate S10
Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE	07.02. Gate S10		USR MC <1574			

LABOR ID: C43RES EQUIP ID: C43RES

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z		,	11111111					TOTAL COST UNIT COST	JULI COST
Steel Sheet Pile Cutoff 1.00 JB 1.00 JB 1.00 JB 1.00 JB 1.00 EA 1.00								 	
Excavate, mdm soil, 3CY excavator OTAL Excavation 1.00 JB 1.00 JB OTAL Sheet Piling OFFAGE OFFA									
OTAL Excavation 1.00 JB 11 Steel Sheet Pile Cutoff 14752 SF OTAL Sheet Piling 1.00 EA 1.00	CY CODEB12Y	288.50	0.01	0.39	0.31	0.00	0.00	0.70	0.70
01 > Steel Sheet Pile Cutoff 14752 SF OTAL Sheet Piling 1.00 EA 1.00 EA Dn Grade Bridge Approach Slab 00 > Placing conc, slab on grade, over 6" thick, direct chute over 6" thick, direct chute over 6" thick, direct chute over 10", 4 use wood, over 12", 4 use wood, over 12", 4 use grade, #3 to #7 00 > Reinforcing in place, slab on grade, #3 to #7 00 > Concrete ready mix, regular over 10 ove	JB	•	84	3,117	2,514	0	0	5, 631	5630.87
TOTAL Sheet Pile Cutoff TOTAL Sheet Piling 1.00 EA 1.01. Bridge Approach Slab 2.4600 > Placing conc, slab on grade, over 6" thick, direct chute 0.360 > Forms in place, SoG, edge forms, wood, over 12", 4 use 7.0600 > Reinforcing in place, slab on grade, #3 to #7 5.0300 > Concrete ready mix, regular seinn									
TOTAL Sheet Piling 1.00 EA lab On Grade 1.01. Bridge Approach Slab 2 4600 > Placing conc, slab on grade, over 6" thick, direct chute 0 3060 > Forms in place, SoG, edge forms, wood, over 12", 4 use 7 0600 > Reinforcing in place, slab on grade, #3 to #7 \$ 0300 > Concrete ready mix, regular seint 4000 pairs, regular seint 4000 pairs	SF CPIDB40	95.63	0.08	3.40	1.62	16.05 289,048	0.00	21.07	25.73
1.01. Bridge Approach Slab 2 4600 > Placing conc, siab on grade, 0 over 6" thick, direct chute 1 3060 > Forms in place, SoG, edge forms, 1 0600 > Reinforcing in place, slab on 1 grade, #3 to #7 2 6300 > Concrete ready mix, regular 2 6000 > Reinforcing in place, slab on 3 6000 > Concrete ready mix, regular 3 6000 > Concrete ready mix, regular 3 6000 > Concrete ready mix, regular 3 6000 > Concrete ready mix, regular	EA	•	1,235	61,231	29,236	289,048	0	379,516	379515.95
grade, 10.00 CY edge forms, 92.00 SF slab on 0.96 TON egular									
grade, chute 10.00 CY adge forms, 92.00 SF slab on 0.96 TON agular									
grade, chute 10.00 CY edge forms, 92.00 SF slab on 0.96 TON egular									
stab on 0.96 TON 99.00 SF	CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
on 0.96 TON egular	SF ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
<pre><03326 0300 > Concrete ready mix, regular weight 4000 ne:</pre>	TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
10.00.01	CY N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish Screen finish	SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floots, monolithic, 260.00 SF ACM	SF ACMACEFI1	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monotithic, broom finish	SF ACMACEFI1	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Bridge Approach Slab 1.00 EA	EA	ı	33	705	4	2,264	0	2,973	2972.61

EQUIP ID: C43RES LABOR ID: C43RES

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07.03. Gate S11	QUANTY	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
07.03.03.01.02. Ladder Platform						! ! ! ! !				1
MIL AA <03372 4600 > Placing conc, slab on over 6" thick, direct	grade, chute 1.00	CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, e wood, over 12", 4 use	edge forms, 14.00	SF ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, grade, ± 3 to ± 7	slab on 0.05	TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, re weight, 4000 psi	regular 24.00	CY N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	48.00	SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, mono float finish	monolithic, 48.00	SF ACMACEFI1	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, mono broom finish	monolithic, 48.00	SF ACMACEFI1	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Ladder Platform	1.00 EA	EA		4	76	0	3,090	0	3,166	3166.16
07.03.03.01.03. Apron Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	grade, chute 709.00 CY	CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, e wood, over 12", 4 use	SOG, edge forms, 4 use 1037.00	SF ACARC1	43.75	0.09	1,65	0.00	0.83	0.00	2,578	2.49
M MIL AA <03217 6600 > Reinforcing in place, grade, #3 to #7	stab on 100.32	TON SIWRRODM4	0.29	13.89 1,393	363.20 36,436	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, reveaght, 4000 psi	regular 709.00	CY N/A	0.00	0.00	0.00	0.00	126.26 89,518	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, mono screed finish	monolithic, 4082.00	SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finisning floors, monoi float finisn	monolithic, 4082.00	SF ACMACEFI1	90.63	0.01	0.22	00.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, mono. broom finish	monolithic, 4082.00 SF	SF ACMACEFI1	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Apron Slab	1.00	EA	•	1,827	43,527	254	186,992		. 627 056	20 277 22 220 22

LABOR ID: C43RES EQUIP ID: C43RES

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PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
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07.03, Gate S11	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	JNIT COST
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1]]] !					
TOTAL Slab On Grade	1.00 EA			1,864	44,308	258	192,346	0	236,912	236912.12
07.03.03.02. Walls										
07.03.03.02.01. Abutment										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	30.31 TON	30.31 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	305.44 CY	N/A	0.00	0.00	0.00	0.00	126.26 38,565	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	305.44 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	7197.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	6811.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 5,539	0.00	2.90	2.90
TOTAL Abutment	1.00 EA		r	1,359	27,786	1,897	73, 523	0	103,206 103205.62	03205.62
07.03.03.02.02. Pier										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	35.00 TON	35.00 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	351.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	351,00 CY	CLABC20	13.75	0.58	10.01	6.21 2,180	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	7152.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	6709.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 5,456	0.00	2.90	2.90
TOTAL Pier	1.00 EA			1,423	29, 324	2,180	83,708	0	115,212	115211.67
TOTAL Walls	1.00 EA			2,782	57,110	4,077	157,231	0	218,417 218417.29	18417.29

LABOR ID: C43RES EQUIP ID: C43RES

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30% Submittal
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07.13.03.010. Abuttents 07.13.010. Abuttents 07.13.010	07.03. Gate S11	QUANTY UOM CR	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
valls, #3 c ties 4 483.00 SF ACMACEFI1 67.50 0.01 0.28 0.00 963.00 0.00 913.017 12 sgular 1.00 EA ACMACEFI1 67.50 0.01 0.29 0.00 0.00 0.00 0.00 0.00 0.00 0.00	07.03.03.03. Columns						 				
walls, #3 2.59 TON SIMERODH4 0.38 10.67 278.93 0.00 963.00 0.00 3,217 12 c ties & 483.00 SF ACARCEFII ACARCEFII 67.50 0.01 0.29 0.00 0.03	07.03.03.03.01. Abutments										
Fig. 6 & 483.00 SF ACMACEFII 67.50	walls,	2.59 TON ST	WRRODM4	0.38	10.67	278.93 722	0.00	963.00	0.00	1241.93	
St. Worker 16.00 CY Ulaber 5.00 1.60 27.52 21.84 0.00 0.00 0.00 19.36 19.00	> Finishing walls, break ties patch voids	SF	MACEF I 1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	
16.00 CY N/A 0.00 0.00 0.00 0.00 2,020 0.00 2,020 0.00 0.	> Placing conc, square/round, & bucket	16.00 CY	ABC7	5.00	1.60	27.52	21.84	0.00	0.00	49.36	49.36
1.00 EA 483.00 SF ACARCI 28.13 0.14 2.57 0.00 0.57 0.00 1.514 1.514 0.10 EA 1.00 EA 1.29 1.240 0.00 0.00 1.241 0.10 EA 1.514 0.10 EA 1.29 0.10 0.00 0.00 0.00 1.241 0.38 0.00		CY	æ	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
walls, #3 4.39 TON SIMPRODM4 0.38 10.67 278.93 are related by a simple of the second of the seco	ä.	SF	ARC1	28.13	0.14	2.57	0,00	0.57	0.00	3.14	
walls, #3 4.39 TON SIMPRODM4 0.38 10.67 278.93 0.00 963.00 0.00 1241.93 126.25 12 1,60 0.01 1,225 0.00 0,00 0,03 162 162 184 0.00 0,03 162 162 184 0.00 0,03 162 184 0.00 0,03 185, 184 0.00 0,00 0,00 0,00 0,00 0,00 0,00 0,0	TOTAL Abutments	1.00 EA		,	129	2,543	349	4,804	0	7,696	7695.93
## ## ## ## ## ## ## ## ## ## ## ## ##	07.03.03.03.02. Piers										
Harties & Soc.00 SF ACMACEFII 67.50	walls,	4.39 TON SI	WRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	
regular regular 27.00 CY N/A 5.00 1.60 27.52 21.84 0.00 0.00 1,333 1,333 regular 27.00 CY N/A 0.00 0.00 0.00 0.00 0.00 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 1,587 1.00 EA 1		SF	MACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	
regular 27.00 CY N/A 0.00 0.00 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 0.00 0.57 0.00 0.57 0.00 0.57 0.00 0.58 0.00 0.00	MIL AA <03372 0450 > Placing conc, columns, square/round, 12" thick, w/crane & bucket	27.00 CY	ABC7	5.00	1.60	27.52	21.84	00.0	0.00	49.36	
6 506.00 SF ACARC1 28.13 72 1,300 0 0.57 0.00 1,587 1,587 1.587 1.587 1.587 1.5887 1.5		CY	ď	00.00	0.00	0.00	0.00	126.26	0.00	126.26	
1.00 EA 169 3,413 590 7,940 0 11,943 1.00 EA 299 5,956 939 12,744 0 19,639	MIL AA <03142 5650 > Forms in place, columns, plywood, 12" x 12", 4 use	SF	ARC1	28.13	0.14	2.57	0.00	0.57	0.00	3.14	
1.00 EA 299 5,956 939 12,744 0 19,639	TOTAL Piers			1	169	3,413	290	7,940	0	11,943	11942.73
	TOTAL Columns	1.00 EA		1	299	5,956	939	12,744	0	19, 639	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES;

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4.28 2.49 0.17 0.22 0.25 2.49 4.28 0.17 TOTAL COST UNIT COST 1326.20 44252.94 1326.20 126.26 44252.94 126.26 1326.20 21,392 126.26 20,580 0.22 1326.20 3,766 0.17 0.25 44,253 4.28 2.49 126.26 2,146 0.17 44,253 0.22 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 963.00 15,533 126.26 20,580 0.00 0.00 0.00 0.83 0.00 0.00 EQUIPMNT MATERIAL 00.0 963.00 126.26 2, 146 36,427 0.00 0.00 0.00 0.00 0.00 0.00 0.36 0.00 0.00 0.00 0.00 0 0.36 0.00 58 58 LABOR 1.65 619 363.20 5,858 0.17 00.0 0.22 0.25 1.65 0.17 7,768 7,768 363.20 1,031 0.00 0.22 13.89 0.09 0.01 00.0 0.01 0.01 13.89 0.00 OUTPUT MANHRS 0 0.01 339 339 0.29 0.01 2 0.29 0.00 43.75 20.63 0.29 0.00 20.63 112.50 90.63 78.75 43.75 112.50 ACMACEF11 16.13 TON SIWRRODM4 ACMACEF 11 1023.00 SF ACMACEFI1 2.84 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID 163.00 CY ULABC6 17.00 CY ULABC6 556.00 SF ACARC1 N/A N/A 1023.00 SF 375.00 SF 163.00 CY 17.00 CY 1023.00 SF EA 589.00 SF 1.00 EA 1.00 MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12^n , 4 use MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use o ö MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0100 > Finishing floors, monolithic, MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps1 MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 TOTAL Under Roller Gate 07.03.03.04.01. Under Roller Gate float finish 07.03.03.05.01. Under Weir Gate TOTAL Weir 07.03.03.04. Welr 07.03.03.05. Sill 07.03. Gate S11

0.22

UPB ID: UP01EA

ID: NAT01A

CREW

90.63

589.00 SF ACMACEFI1

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal 07. Perimeter Canal Structures

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07.03. Gate S11	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	UNIT COST
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	589.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	00.0	0.00	0.25 146	0.25
TOTAL Under Weir Gate	1.00 EA		•	114	2,391	9	5,345	0	7,742	7742.25
TOTAL SILL	1.00 EA		•	114	2,391	9	5,345	0	7,742	7742.25
07.03.03.07. Elevated Slabs									•	
07.03.03.07.01. Service Bridge Slab										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	227.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' high 4 use	1891.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	4009.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" tnick, pumped	101.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	101.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7	16.68 TON	SIWRRODM4	0.29	13.89	363.20 6,058	0.00	963.00 16,063	0.00	1326.20 22,121	1326.20
TOTAL Service Bridge Slab	1.00 EA		1	507	11,209	383	31,070	0	42,662	42662.10
07.03.03.07.02. Operating Platform										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nign, 4 use	186.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	496.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	1364.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	33.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	33.00 CY	N/A	0.00	0.00	0.00	0.00	126.26 4,167	0.00	126.26	126.26

EQUIP ID: C43RES LABOR ID: C43RES

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07.03, Gate S11	QUANTY UOM CREW	EW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	5.51 TON SIWRRODM4	WRRODM4	0.29	13.89	363.20	00.00	963.00	0.00	1326.20	1326.20
TOTAL Operating Platform	1.00 EA			166	3,655	125	10,114	0	13,894	13894.43
TOTAL Elevated Slabs	1.00 EA			673	14,864	509	41,184	0	56.557	56556.52
07.03.03.08. Breast Wall								•		
07.03.03.08.01. Breast Wall										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	3 0.42 TON SIWRRODM4	WRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	4.00 CY N/A	æ	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	4.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	270.00 SF AC	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	250.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90 724	2.90
TOTAL Breast Wall	1.00 EA			38	756	25	1,121	0	1,903	1902.52
TOTAL Breast Wall	1.00 EA			38	756	25	1,121	0	1,903	1902.52
07.03.03. Pile Cap										
07.03.03.09.01. Pile Cap										
M MIL AA <03217 0700 > Reinforcing in place, walls, $\#3$	3 0.94 TON SIWRRODM4	WRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	18.00 CY N/A	Æ	00.00	0.00	0.00	0.00	126.26 2,273	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	18.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break tles & patch voids	960.00 SF AC	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

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07. Perimeter Canal Structures

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2.90 74.90 9.64 41.37 1.93 114,388 114387.90 114,388 114387.90 141873.68 283,747 141873.68 TOTAL COST UNIT COST 6126.24 6126.24 705,936 705936.44 33.37 25702.56 76557.24 76557.24 153,114 2,086 6,126 6,126 74.90 9.64 13,048 41.37 1,93 33.37 5,072 25,703 OTHER 0.00 10 0.00 0.00 0.00 0.00 0.00 0 0 0 0.00 0.00 0 0.00 78110.00 42800.00 LABOR EQUIPMNT MATERIAL 0.81 74.90 24.71 11,266 1,38 3,794 3,794 25.96 3,946 101,340 101,340 551,532 16,471 0.00 11264.38 22,529 00.00 3.69 5963.49 4,996 4,996 112 6.14 0.15 4.02 112 10,980 134 3,544 52499.30 104,999 2.08 5.95 27793.75 55,587 2,220 0.00 3.39 2,220 8,052 8,052 143,424 10.53 0.41 5,688 0.11 0.00 470.59 0.35 1,778 OUTPUT MANHRS 114 6,692 0.02 0.09 114 468 468 0.51 266 54.38 00.0 9.75 0.02 0.01 23.13 150.00 54.38 COFGB36C QUANTY UOM CREW ID 1353.00 CY CLABC20 CODEB3A 2.00 EA SIWSE21 SIWSE21 720.00 SF ACARC2 ULABA2 1353.00 CY N/A 456.00 CY 912.00 SY 152.00 CY 2.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 JB MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene MIL AA <03372 4650 > Placing conc, slab on grade, over 6" thick, pumped M RSM AA <03326 0100 > Concrete ready mix, regular weight, 2500 psi USR AA <05150 0001 > Roller Gate 14' x 8' CI TOTAL Erosion Control System USR AA <05150 0001 > Weir Gate 10' x 8' SST TOTAL Seal Concrete TOTAL Seal Concrete 07.03.03.10.01. Seal Concrete TOTAL Pile Cap TOTAL Pile Cap TOTAL Concrete ptywood 07.03.04. Erosion Control System 07.03.03.10. Seal Concrete 07.03.05. Gates 07.03. Gate S11

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATOIA

UPB ID: UP01EA

U.S. Atmy Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
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	QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT
				1	1	 				
TOTAL Gates	1.00 EA			2,719	160,586	34,456	241,820	0	436,862	436861.84
07.03.06. Rip Rap										
MIL AA <022244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	305.00 CY	COFGB36C	54.38	0.09	3.39	4.02	25.96	0.00	33.37	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	1219.00 sr	ULABA2	150.00	0.02	0.41	0.15	1.38	00.0	1.93	
MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	610.00 CY	CODEB3A	9.75	0.51	10.53	6.14	24.71	0.00	41.37	41.37
TOTAL Rip Rap	1.00 EA			365	7,954	5,149	24,671	0	37,773	37773.32
07.03.11. Electrical										
USR EL <16865 0110 > Control Panel	1.00 EA	EELER19	0.08	30.12	1548.34	0.00	8560.00	0.00	10108.34	12009.72
USR EL <16119 0001 > RIU w/PLC	1.00 EA	EELEELEC1	0.03	36.90	1889.48	0.00	4280.00	00.0	6169.48	7329,96
USR EL <16119 0002 > Hoist Starters & Remote Controls	2.00 EA	EELEELEC1	0.02	55.56	2844.72 6,760	0.00	3745.00	0.00	6589.72	7829.25
USR EL <16119 0002 > Actuator Starter & Remote Cntrls	2.00 EA	EELEELEC1	0.02	55.56	2844.72	0.00	3745.00	0.00	6589,72	7829 25
USR EL <16711 0011 > Meter Connection by Utility	1.00 LS		00.00	0.00	0.00	0.00	00.0	700.00	700.00	831.67
USR EL <16181 5999 > Grounding, iaid in trench, copper, bare stranded, ∉6	0.07 MLF	. EELER18	0.55	6.00	165.56	0.00	363.80	0.00	529.36 41	628.93
RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position	1.00 EA	EELEELEC1	0.40	2.50	128.01	0.00	29.48	0.00	157.49	187.12
AF EL <16622 5230 > HID fxtr, floodlight, 250W nigh press sodium lamp, encl, heavy duty	13.00 EA	EELER19	0.69	3.63	186.79 2,885	0.00	391.89 6,053	0.00	578.68 8,938	687.53
USR EL <16611 4100 > Compact Fluorescent	7.00 EA	EELER19	1.00	2.50	128.51	0.00	181.90	0.00	310.41	368.80

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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07.03. Gate S11		QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	NIT COST
						-					
	USR EL <16617 0001 > Lignt pole foundation 43' tall, round, 3" OD, otagonal, conc	10.00 EA	EELER15	09.0	10.00	499.44	85.16 1,012	214,00	0.00	798.59	948.81
	MIL EL <16617 1040 > Lighting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, tapered	10.00 EA	EELER15	0.82	7.33	365.89	62.38	903,35 10,733	0.00	1331.62	1582.10
	USR EL <16617 0002 > Lighting, poles, wood, 20' NOTE: Use for Meter Pole	1.00 EA	EELER15	3.00	2.00	99.89	17.03	460.10	0.00	577.02	685.56
	MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1	1.00 EA	EELEELEC1	0.21	4.85	248.57	0.00	514.97	0.00	763.54	907.16
	USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole	13.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
	MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for Panel L	1.00 EA	EELEELEC1	0.12	8.47	433,94 516	0.00	332.77 395	0.00	766.71 911	910.93
	USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting Controller	1.00 EA	BELEELEC1	0.42	2.40	122.79	0.00	802.50	0.00	925.29	1099.34
	USR EL <16333 1401 > Photo-cell	1.00 EA	EELER19	1.88	1.33	68.30 81	0.00	128.40	0.00	196.70	233.70
	USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting controller	1.00 EA	ULABC6	0.75	8.00	107.95 128	9.87	107.00	0.00	224.82 267	267.11
	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	1430.00 LF	COETR23	33.25	0.11	4.64	4.30	00.0	0.00	8.93	10.61
	MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12	0.22 MLF	FELEELEC1	0.14	7.25	371.05 95	0.00	69.02	0.00	440.07	522.84
	MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10	3.24 MLF	FELEGLEC1	0.13	8.00	409.64	0.00	105.93	0.00	515.57	612.55
	MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6	1.55 MLF	FELEBLEC1	0.08	12.35	632.16	0.00	293.72 541	0.00	925.88	1100.03
	MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0	0.08 MLF	0.08 MLF EELEELEC1	0.04	24.39	1248.90	00.00	1049.67	0.00	2298.57	2730.93

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
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	MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex	1.00 EA	EELEELEC1	3.38	0.30	15.17	0.00	32.53	0.00	47.70	56.67
	USR EL <16153 0014 > Cable Termination #12	50.00 EA	EELER19	31.25	0.08	4.11 244	0.00	0.27	0.00	4.38	5.20
	USR EL <16153 0013 > Cable Termination #10	90.00 EA	EELER19	27.78	0.09 8	4.63	0.00	0.54	0.00	5.16 552	6.13
	USR EL <16153 0012 > Cable Termination #6	8.00 EA	EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0010 > Cable Termination #1/0	12.00 EA	EELER19	16.67	0.15	7.71	0.00	3.21	0.00	10.92	12.97
	MIL EL <16711 0500 > Elec & tel sitewk, 2'x2'x2'-6" D, hand holes, precast conc, W/conc cov	1.00 EA	EELER3	0.31	7.99	415.55	65.02	321.00	00.0	801.57	952.34
	MIL EL <16333 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2	2.00 EA	EELEELECI	0.41	2.42	123.98 295	0.00	269.11	0.00	393.09 934	467.03
	MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R	1.00 EA	EELEELEC1	0.31	3.20	163.86	0.00	354.06 421	0.00	517.92 615	615.34
	USR EL <16232 2483 > Wiring device, recèptacle, gnd fault intrpt, 20 amp, duplex WP	1.00 EA	EELEELEC1	2.89	0.35	17.70	0.00	53.50	0.00	71.20	84.59
	USR EL <16153 0011 > Cable Termination #4	6.00 EA	EELER19	20.83	0.12	6.17	0.00	1.12	0.00	7.29	8.66
	USR EL <16153 0012 > Cable Termination #6	14.00 EA	EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0013 > Cable Termination #8	22.00 EA	EELER19	27.78	0.09	4.63	0.00	0.80	0.00	5.43	6.45
	USR EL <16153 0014 > Cable Termination #12	478.00 EA	EELER19	31.25	0.08	4.11	0.00	0.27	0.00	4.38	5.20
	USR EL <16153 0016 > Cable Termination #16	54.00 EA	EELER19	31.25	0.08	4.11 264	0.00	0.16	0.00	4.27	5.08
	MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	254.00 LF	EELEELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv 1191.00 LF	1191.00 LF	BELEELEC1	11.63	0.09	4.406,233	0.00	2.18	0.00	6.59 9,321	7.83

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

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07. Perimeter Canal Structures

10.23 2.55 4.13 5.60 4.13 2.55 10.23 2.14 7.83 2.55 61.38 84.99 TOTAL COST UNIT COST 425.73 612.55 1258.36 4.71 2.148,146 3.47 3.47 6.59 1.80 1059.14 1,258 2.14 8.61 93.82 515.57 3,414 51.66 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.43 0.57 1.20 LABOR EQUIPMNT MATERIAL 1.20 0.57 3.49 2.18 0.57 105.93 702 10.70 428.54 83 20.33 48 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 0.00 00.0 00.0 00.0 0.00 1.58 2.28 1.58 2.28 1.58 54.01 409.64 2,713 40.96 51.21 122 630.60 122 6.14 0.03 0.04 0.06 0.04 0.03 0.10 0.09 8.00 0.03 1.05 1.00 12.32 MANHRS 0.03 46 0.80 OUTPUT 15.63 10.00 22.50 22.50 32.50 10.00 11.63 32.50 0.16 0.13 1.25 1.00 0.08 32,50 36.25 1.24 EELEELEC1 EELEELEC1 EELEELEC1 **EELEELEC1 EELEELEC1** EELEELEC1 EELEELEC1 EELEELEC1 0.07 MLF EELEELEC1 EELEELEC1 EELEELEC1 5.57 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER20 12.00 EA EA 1.00 EA 90.00 LF 3200.00 LF 1260.00 LF 75.00 LF 530.00 LF 900.00 LF 20.00 LF 5.00 LF 70.00 LF 1490.00 LF ΕA 2.00 2.00 MIL EL <16018 0580 > Conquit to 15' H,1.5" dia, incl couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16018 0580 > Conquit to 15' H,1.5" dia, incl couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl RSM EL <16119 0920 > Wire, 600 volt, type THWN-THHN, copper, solid, #14 CIV EL <16153 0320 > Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pt #20, and #10 MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl MIL EL <16325 4340 > Panelboard assem, 20-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V MIL EL <16326 0100 > Panelboard&ld ctr ckt brkr,15 50A,bolt-on,10k AIC,1 P,120V MIL EL <16326 0310 > Panelboard&ld ctr ckt brkr,70 100A,bolt-on,10k AIC,1 P,120V MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling MIL EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, w/coupling

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

ID: NAT01A

CREW

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

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07.03. Gate S11		QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
	NOTE: Use for distribution panel L						 	: 	; ; ; ;	; ; ; ; ; ; ;	
	MIL EL <16337 1700 > Safety switch, heavy duty, 600 V, 3 pole non fused, 100 A	1.00 EA	EELEELEC1	0.24	4.20	215.15 256	0.00	293.18	0.00	508.33	603.94
	MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0	0.59 MLF	F EELEELEC1	0.04	24.39	1248.90 868	0.00	1049.67	0.00	2298.57 1,598	2730.93
	MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6	0.16 MLF	F EELEELEC1	0.08	12.35 2	632.16	0.00	293.72	0.00	925.88	1100.03
	MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12	6.62 MLF	F ESLESLEC1	0.14	7.25	371.05 2,916	0.00	69.02	0.00	440.07	522.84
	MIL EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4	0.02 MLF	F EELER18	0.55	00.9	165.56	0.00	360.59	0.00	526.15	625.11
	MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, cadweld	21.00 EA	EELER19	1.94	1.29	66.31 1,654	0.00	19.57	0.00	85.88 2,143	102.04
	CIV EL <16213 2744 > Pull box, hinged, steel, NEMA 4, 12"N x 12"H x 6"D	1.00 EA	EELEELEC1	0.63	1.60	81.93	0.00	69.67	0,00	151.60	180.11
	MIL EL <16213 0380 > Pull box, sneet metal, NEMA 1, type SC, 24"W x 18"H x 6"D	3.00 EA	EELEELEC1	0.46	2.16	110.59	0.00	69.98 249	0.00	180.57	214.54
	MIL EL <16213 0330 > Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6"	1.00 EA	EELEELEC1	0.53	1.90	97.53 116	0.00	44.60	0.00	142.13	168.87
	USR EL <16820 3580 > Stilling well	2.00 EA	EELER19	0.01	219.30	11273.03 26,787	0.00	7490.00	0.00	18763.03 44,585	22292.35
	MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling	555.00 LF	EELEELEC1	22.50	0.04	2.28	00.00	1.20	0.00	3.47	4.13
	USR EL <16869 0090 > Lighting Contactor	1.00 EA	EELER19	0.83	3.00	154.28	0.00	160.50	0.00	314.78	373.99
	MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, cadweld NOTE: Use for 2/0 cadweld	1.00 EA	EELER19	1.94	1.29	66.31	0.00	19.57	0.00	85.88 102	102.04
	USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, conduit, etc.	1.00 EA	EELER18	0.04	75.69	2088.43	0.00	3210.00 3,814	0.00	5298.43 6,295	6295.07

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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07. Perimeter Canal Structures

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07.03. Gate \$11		QUANTY UOM	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
	MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R	4.00 EA	EELEELEC1	0.31	3.19	163.59	00.00	354.06 1,683	0.00	517.66 2,460	615.03
	MIL EL <16313 9650 > Motor starter & cont, NEMA 1, size i, comb, rev, w/disc switch	2.00 EA	EELER19	0.30	8.33	428.38	0.00	871.23	0.00	1299.60	1544.06
	CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H x 12"D, sheet met, dbi dr, NEMA 3R NOTE: Use for RIU enclosure	1.00 EA	EELEELEC1	0.25	4.00	204.82	0.00	363.73 432	0.00	568,55 675	675.49
	USR EL <16333 1401 > Photo-cell	1.00 EA	EELER19	1.88	1.33	68.30 81	0.00	128.40	0.00	196.70	233.70
	USR EL <16711 0011 > Meter Connection by Utility	1.00 LS		0.00	0.00	0.00	0.00	0.00	700.00	700.00	831.67
	RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position	1.00 EA	EELEELEC1	0.40	2.50	128.01	00.00	29.48	0.00	157,49	187.12
	MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1	2.00 EA	EELEELEC1	0.21	4.85	248.57	0.00	514.97	0.00	763.54	907.16
	USR EL <13810 5471 > Surge Suppressor	1.00 EA	EELER19	0.48	5.26	270.55	0.00	107.00	0.00	377.55	448.57
	USR EL <13810 0001 > Limit and Rotary Switches	6.00 EA	MSHMQ20	0.59	4.23	111.98	0.00	26.75	0.00	138,73	164.83
	USR EL <13810 0002 > Push Button Stations	4.00 EA	MSHMQ20	0.63	4.00	105.93	0.00	53.50	0.00	159.43	189.42
	USR EL <16153 0016 > Cable Termination #10	128.00 EA	EELER19	27.78	0.09	4.63	0.00	0.54	0.00	5.16	6.13
	USR EL <16153 0014 > Cable Termination #14	12.00 EA	EELER19	31.25	0.08	4.11	0.00	0.21	00:0	4.33	5.14
	AF EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex	4.00 EA	EELEELEC1	3.38	0.30	15.17	0.00	30.82	0.00	45.99	54.64
	MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST	2.00 EA	EELEELEC1	1.38	0.73	37.24	0.00	9.68	0.00	46.92	55.75
	MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered	2.00 EA	EELER15	2.88	2.09	104.23	17.77	497.55 1,182	0.00	619.55	736.09

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

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PROJECT C43RES; C43 West Storage Reservoir - South Florida Water Management
30% Submittal

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708.21 848.03 10.61 910.17 280.58 1656.64 1620.70 157.49 524.68 270.65 1454.43 825.12 400.49 TOTAL COST UNIT COST 708.21 766.07 1,820 713.77 236.16 1394.36 1364.11 132.55 596.08 596.08 1,416 441.62 2,099 227.80 8.93 1224.16 694.48 337.08 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 246.10 1,170 371.08 133.75 1134.20 535.00 636 65.16 1,081 1,081 151.62 0.00 448.33 182.44 42.80 EQUIPMNT MATERIAL 322.07 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 57.54 68.12 0.00 0 4.30 0.00 0 0.00 337.46 399.55 LABOR 102.41 829.11 985 67.39 141.33 141.33 119.55 568 76.18 724 4.64 775.83 512.05 487 294.28 260.16 258 6.76 2.00 2.76 2.76 2.33 8.00 9.43 16.13 16 1.43 1.62 15.15 5.75 MANHRS 0.11 10.00 0.89 0.75 0.50 0.35 0.16 3.25 0.72 0.17 0.72 1.08 2.88 33.25 0.07 0.10 OUTPUT 2.00 EA EELEELEC2 2.00 EA EELEELEC2 **EELEELEC1** 0.03 MLF EELEELEC1 EELEELEC1 0.16 MLF EELEELEC1 QUANTY UOM CREW ID EELER15 EELER15 EELER18 EELER19 EELER22 4.00 EA EELER19 COETR23 EELER22 0.84 MLF 0.80 MLF ΕĄ 4.00 EA 7.00 EA 1.00 EA 4.00 EA 8.00 EA 3320.00 LF 2.00 security, ext wall NOTE: Use for type D (250w Metal MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12) USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8) MIL EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8 EL <16119 0990 > Wire, 600 volt, type THWN-THHN, #16 NOTE: Use for fixture type B NOTE: Use for fixture type C 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain USR EL <16611 0001 > Ltg fxtr, 175w Metal Halide (EH-1) Ltg fxtr, 175w Metal Halide MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0 <16617 3300 > Light Pole Foundation Ltg, HID fxtr, 250W Halide EH9) USR EL <16865 0125 > Level Gage trencher tapered (EH1) B USR EL <16622 3010 > MIL EL <16622 3060 > MIL EL <16611 4120 > MIL EL <02230 USR EL USR 07.03. Gate S11

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A

UPB ID: UP01EA

07.03. Gate S11

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 07. Perimeter Canal Structures PROJECT C43RES:

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12.97 0.23 18.10 17,95 0.17 0.22 TOTAL COST UNIT COST 25083.87 4066.14 1099.34 323,945 323945.25 50586.44 1090.80 126.26 21112.59 50586.44 3422.39 925.29 126.26 631 17.95 0.23 0.22 46 OTHER 0.00 0.00 0.00 0.00 1,663 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 18725.00 22,247 41730.00 3107.28 3,692 802.50 LABOR EQUIPMNT MATERIAL 727.60 126.26 631 0.00 0.00 00.0 0.00 16.26 144,414 1676.22 0.00 323.02 0.00 0.00 0.00 0.00 0.00 00.0 0.00 0.77 27,000 7.94 40 0.00 7.71 2064.57 7180.22 7,180 315.11 0.96 1.07 122.79 150,868 00.0 10.01 0.17 0.22 0.23 46 0.15 40 2.40 6.15 130.08 0.05 0.00 MANHRS 0.01 0.03 39.68 2,630 0.58 0.01 ~ 0.01 OUTPUT 90.0 0.16 0.42 90.0 0.29 0.00 47.50 16.67 75.00 13.75 112.50 90.63 84.38 EELEELEC1 0.20 TON SIWRRODM4 ACMACEF11 EELEELEC1 ACMACEF11 ACMACEF11 CODFB10N QUANTY UOM CREW ID EELER19 1.00 EA SIWSE7A EELER3 68.00 LF ACARCI ULABC7 30.00 EA 1.00 EA ζζ 1.00 EA 1.00 EA 5.00 CY 5.00 CY 264.00 SF 264.00 SF 264.00 SF 1.00 EA 5.00 MIL AA <63170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building USR AA <03450 0001 > Precast Concrete Building Note: .9 MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole Note: Material price from Concrete Modular Systems MIL AA <03217 0600 > Reinforcing in place, slab on ATIN: Frederick Kennedy MIL AA <03396 0100 > Finishing floors, monolithic, MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <03372 4400 > Placing conc, slab on grade, thick, w/crane & bucket MIL AA <03396 0010 > Finishing floors, monolithic, screed finish M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi ΚW USR EL <16513 2015 > Emergency Generator 20 USR EL <16153 0010 > Cable Termination #1/0 grade, #3 to #7 USR EL <16323 0001 > Terminal Box TOTAL Electrical 07.03.15. Equipment Building

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
07. Perimeter Canal Structures

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

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IIT COST	1880.06		1323 70
OTHER TOTAL COST UNIT COST	51,880 51880.06		1056.00
OTHER TO	0		0.00
LABOR EQUIPMNT MATERIAL	148 7,537 1,720 42,623 0 51,880		856.00
EQUIPMNT	7,537 1,720 42,623		00.0
LABOR	7,537		0.00 200.00 0 501
MANHRS	148		00.0
OUTPUT			0.00
QUANTY UOM CREW ID OUTPUT MANHRS	1.00 JB		2.00 EA N/A
07.03. Gate S11 QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNI MAIERIAL OTHER TOTAL COST UNIT COST	TOTAL Equipment Building	07.03.95. Controls	USR MC <15743 0001 > Dewatering Gate IO Points

3.95. Controis										
USR MC <15743 0001 > Dewatering Gate IO Points	2.00 EA	N/A	0.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Level Control Gate IO Points	2.00 EA	N/A	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Upstream Downstream Level IO Points	2.00 EA	N/A	00.00	0.00	200.00	0.00	856.00 2,146	00.00	1056.00	1323.70
USR MC <15743 0001 > Downstream Sampler IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Emergency Generator IO Points	1.00 EA	N/A	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Telemetry To/From Gated Structure	1.00 EA	N/A	00.00	0.00	100.00	0.00	535.00 671	0.00	635.00	795.97
USR MC <15743 0001 > 16 VHF Data Radios Structure	1.00 EA	N/A	00.00	0.00	300.00	0.00	1605.00	0.00	1905.00	2387.92
AF MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher	1000.00 LF	CODBB54	90.63	0.01	590	0.13	0.00	0.00	0.60	0.75
USR MC <15743 0001 > Control Conduit & Cable	1000.00 LF	EELER18	30.35	0.11	3.00	0.00	4.28	0.00	7.28	9.13
TOTAL Controls	1.00 EA			120	6,857	164	16,631	0	23, 652	23652.29
TOTAL Gate \$11	1.00 EA		• 1	14,258	547,263	114,762 1	1,327,210	1,663	1,990,899	1990899
TOTAL Perimeter Canal Structures	1.00 EA		ı	35,826 1	35,826 1,409,289	266,050 3	3,015,307	4,990	4,695,637	4695637

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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08. Crested Spillway 08.01. Gate CSI Crest Spillway			Indino	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
				 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2 2 1 1 1 1 1			
08.01.02. Sheet Piling										
USR TF <02161 0001 > Steel Sheet Pile Cutoff	248.00 SF	CPIDB40	95.63	0.08	3.40 1,029	1.62	16.05	0.00	21.07	25.73
TOTAL Sheet Piling	1.00 EA			21	1,029	491	4,859	0	6,380	6380.15
08.01.03. Concrete										
08.01.03.01. Conduits										
08.01.03.01.10. Boxed Conduit										
08.01.03.01.10.01. Conduit Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	59.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	246.00 SF	ACARC1	43.75	0.09	1.65 406	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	3.46 TO	3.46 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps.	59.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	820.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	820.00 SF	ACMACEF11	90.63	0.01	0.22	00.0	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	820.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Conduit Base Slab	1.00 EA		,	114	2,416	21	10,987	0	13,424	13423.68
08.01.03.01.10.02. Top Slab										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	246.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' high 4 use	820.00 SF	ACARC2	61.88	0.10	1.83	00.00	1.14	0.00	2.98	2.98

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 08. Crested Spillway PROJECT C43RES;

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0.17 9.91 126.26 16.22 0.32 2.90 4.28 2.49 126.26 1326.20 14819.59 TOTAL COST UNIT COST 1241.93 13792.42 42035.69 1326.20 0.17 126.26 6,944 1326.20 1241;93 2,645 126.26 16.22 0.32 2.90 13,792 4.28 2.49 1326.20 5,040 9.91 14,820 42,036 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 00.0 0 0 0.00 0.00 00.00 126.26 6,944 11,062 126.26 0.03 0.83 963.00 EQUIPMNT MATERIAL 963.00 963.00 0.00 0.81 3,082 8,229 30,277 0.00 3.80 0.00 0.00 0.00 6.21 0.00 0.00 0.36 0.00 0.00 00.0 209 0 224 454 LABOR 363.20 1,162 278.93 3.93 1.65 363.20 6.12 0.00 3,549 0.00 2.08 5,340 336 360 0.29 10.01 284 11,305 0.36 0.01 0.01 00.0 13.89 10.67 0.58 0.29 0.09 13.89 173 0.00 0.11 MANHRS 275 563 OUTPUT 0.00 0.29 0.38 0.00 13.75 0.29 112.50 22.50 67.50 54.38 20.63 43.75 ACMACEF11 3.20 TON SIWRRODM4 2.13 TON SIWRRODM4 ACMACEF 11 3.80 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 CLABC20 ACARC2 ULABC6 N/A 55.00 CY 55.00 CY 65.00 CY 820.00 SF 36.00 CY 36.00 CY 1968.00 SF 984.00 SF 270.00 SF 1.00 EA 1.00 EA 1.00 EA MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nign, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 MIL AA <03372 5100 > Placing conc, walls, 12" thick, AA <03372 1600 > Placing conc, elev slabs, over M MIL AA <03217 0600 > Reinforcing in place, slab on grade; #3 to #7 M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish 0010 > Finishing walls, break ties patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute TOTAL Boxed Conduit 08.01.03.01.15. U-Shaped Conduit 08.01.03.01.15.01. Base Slab 08.01.03.01.10.03. Walls TOTAL Top Slab TOTAL Walls MIL AA <03398 08.01. Gate CS1 Crest Spillway AF

UPB ID: UP01EA

NAT01A

ID: CREW

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 08. Crested Spillway PROJECT C43RES:

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DETAIL PAGE

0.17 0.22 0.25 2.90 0.32 4.28 TOTAL COST UNIT COST 126.26 14768.38 1241.93 126.26 16.22 15210.25 29978.63 72014.33 126.26 8,207 0.17 0.22 0.25 14,768 1241.93 2,906 126.26 5,050 15,210 4.28 16.22 649 72,014 2.90 29,979 0.32 347 OTHER 0.00 0.00 0.00 10 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0 126.26 8,207 0.00 0.00 0.00 EQUIPMNT MATERIAL 00.0 963.00 126.26 5,050 0.00 0.03 0.81 9,095 12,092 21,187 51,464 0.00 0.00 0.00 6.21 248 0.00 0.00 00.0 0.36 0.00 0.00 23 248 272 725 LABOR 0.00 0.25 0.22 2,653 278.93 10.01 3.93 0.17 156 00.0 0.29 2.08 5,867 8,520 19,825 0.00 0.01 0.01 10.67 0.58 0.01 0.11 0.29 OUTPUT MANHRS 0.01 126 0.00 302 428 991 00.00 20.63 0.38 0.00 112.50 90.63 78.75 13,75 67.50 54.38 ACMACEF11 900.00 SF ACMACEFI1 2.34 TON SIWRRODM4 ACMACEF11 900.00 SF ACMACEFI1 QUANTY UOM CREW ID CLABC20 2160.00 SF ACARC2 ULABC6 N/A 65.00 CY 900.00 SF 40.00 CY 98.00 CY 40.00 CY 1080.00 SF 1.00 EA EA 1.00 EA 1.00 EA 1.00 MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood M MIL AA <03217 0700 > Reinforcing in place, walls, #3 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03396 0010 > Finishing floors, monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL U-Shaped Conduit screed finish 08.01.03.02.01.01. Base Slab 08.01.03.01.15.02. Walls TOTAL Base Slab TOTAL Conduits 08.01.03.02.01. Weir Inlet to #7 TOTAL Walls 08.01.03.02. Weir Inlet 08.01. Gate CS1 Crest Spillway

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway PROJECT C43RES;

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DETAIL PAGE

0.17 0.25 0.22 16.22 0.32 2.90 TOTAL COST UNIT COST 1326.20 126.26 23812.38 1241.93 126.26 16520.94 1241.93 126.26 572 1326.20 9,522 126.26 12,373 360 0.17 0.22 1241.93 23,812 126.26 8,207 16.22 0.32 2.90 16,521 126.26 1,136 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.81 0.00 963.00 6,914 126.26 12,373 00.0 00.0 963.00 4,594 126.26 8,207 0.03 963.00 126.26 1,136 EQUIPMNT MATERIAL 19,480 0.00 13, 125 0.00 0.00 0.00 0.00 6.21 0.00 0.00 0.00 0 0.00 0 00.00 00.0 0.00 35 404 LABOR 0.22 0.25 2,608 0.00 252 4,297 278.93 0.00 10.01 651 0.29 2.08 2,993 278.93 0.00 253 0.09 0.00 0.01 0.01 MANHRS 0.01 0.11 0.00 100 10.67 0.00 0.58 0.01 10.67 142 0.00 78.75 90.63 0.38 00.0 13.75 OUTPUT 43.75 0.29 112.50 67.50 54.38 0.38 0.00 1455.00 SF ACMACEFI1 7.18 TON SIWRRODM4 ACMACEF11 ACMACEF11 4.77 TON SIWRRODM4 ACMACEF I 1 0.68 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 230.00 SF ACARC1 ACARC2 N/A N/A 98.00 CY 1455.00 SF 65.00 CY 1455.00 SF 65.00 CY 876.00 SF 364.00 SF 9.00 CY 1.00 EA 1.00 EA MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over $12^{\rm m},~4~{\rm use}$ MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <63217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, M MIL AA <03217 0600 > Reinforcing in place, slab on monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03398 0010 > Finishing walls, break ties patch voids M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 08.01.03.02.01.03. Transition To Conduit MIL AA <03396 0010 > Finishing floors, screed finish grade, #3 to #7 TOTAL Base Slab 08.01.03.02.01.02. Weir plywood TOTAL Weir 08.01. Gate CS1 Crest Spillway

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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08.01. Gate CS1 Crest Spillway	QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
MIL AA <03372 5100 > Placing conc, walls, 12" thick,	000	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	88.0	10.01	6.21	00.0	0.00	16.22	1 1 1 1 1 1 1
Fire N. MIL AA <03398 0010 > Finishing walls, break ties & paton voids	198.00 SF		67.67	0.01	0.29	0.00	0.03	0.00	146 0.32	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood			54.38	0.11	2.08 825	0.00	0.81 322	0.00	2.90 1,147	2.90
TOTAL Transition To Conduit	1.00 EA			59	1,162	26	2,120	0	3, 338	3337.74
TOTAL Weir Inlet	1.00 EA		•	398	8,452	495	34,724	0	43,671	43671.06
TOTAL Weir Inlet	1.00 EA		•	398	8,452	495	34,724	0	43,671	43671.06
08.01.03.04. Stilling Basin										
08.01.03.04.01. Stilling Basin Parabolic Transition										
08.01.03.04.01.01. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	6.45 TON	N SIWRRODM4	0.38	10.67	278.93	0.00	963.00 6,211	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	135.00 CY	N/A	00.0	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	135.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22 2,190	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	1984.00 SF	ACMACEF 11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	3968.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls	1.00 EA		•	614	11,993	838	26,547	0	39,379	39378.73
08.01.03.04.01.02. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	93.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	378.00 SF	ACARC1	43.75	0.09	1.65 624	0.00	0.83	0.00	2.49	2.49

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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METALA 403210 0600 PaintGreeting in place, 51ab on 4.41 TON SINNRONM 0.29 13.616 0.00 0.00 0.00 11.742 0.00 15.92 1326.2	08.01. Gate CS1 Crest Spillway	QUANTY UOM CREW ID	TUTTUO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
regular		4.45 TON SIWRRODM			363.20	0.00	963.00	0.00	1326.20	1326.20
Conclithic, G75.00 SF ACMACEFII 112.50 G G G G G G G G G			0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
conclithic, notitions, conclithic, states on the price, elevations, conclithic, states on the price, elevations, conclithic, alse states, over a light on the states, over a light on the states, over a light on the states of the sta	MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	SF		0.01	0.17	0.00	0.00	0.00	0.17	0.17
Decision Price, area Pri	MIL AA <03396 0100 > Finishing floors, monolithic, float finish	SE		0.01	0.22	0.00	0.00	0.00	0.22	0.22
1.00 EA 1.00	MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	SF		0.01	0.25	0.00	0.00	0.00	0.25	0.25
price, elev price, elev 90.00 SF ACARCI 43.75 8 1.65 0.00 0.40 0.00 2.05 high, 4 use 90.00 SF ACARCI 43.75 8 149 0.00 1.14 0.00 2.08 high 4 use 640.00 SF ACARCI 61.88 0.10 1.712 0.00 1.14 0.00 2.98 onolithic, 832.00 SF ACMACEFII 112.50 0.01 0.17 0.00 0.00 0.00 0.17 stabs, over 31.00 CY ACABCZO 22.50 0.36 6.12 3.80 0.00 0.00 0.17 regular 31.00 CY N/A 0.00 0.00 0.00 1.425 0.00 1.963 1326.26 e, slab on 1.48 TON SIMRRODM4 0.29 13.89 363.20 0.00 3.914 0 1.963 1326.20 bottic 1.00 EA 1.00 EA 869 17,220 989 48,998 0 0	TOTAL Base Slab	1.00 EA		145	3,035	33	16,343	0	19,411	19411.03
price, elev 90.00 SF ACARCI 43.75 8 1.65 0.00 36 0.05 36 0.05 1.84 0.05 1.84 0.00 1.84 0.00 1.14 0.00 2.98 v slab, flat high 4 use 640.00 SF ACARCZ 61.88 0.10 1.83 0.00 1.14 0.00 2.98 noblithic, slabs, over slabs, over slabs, over 1 labs,	08.01.03.04.01.03. Top Slab									
v slab, flat 640.00 SF ACARCZ 61.88 6.1 1.18 0.00 1.14 0.00 2.98 noolithic, bigh 4 use 640.00 SF ACARCZ 61.88 6.01 1,172 0	AA <03150 7101 > Forms in place, alt price, slab, edge, 7"-12" high, 4	F.	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
condithic, slabs, over 832.00 SF ACMACEFII 112.50	slab, igh 4	R	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
regular 31.00 CY CLABC20 22.50 11 100 CY N/A 11 100 CY N/A 11 100 CY N/A 11 100 CY N/A 11 100 CA 11 100 CA 11 100 CA 11 100 CA 11 100 CA 11 100 CA 11 11 11 11 12 13 14 15 15 16 17 17 17 18 18 18 19 18 18 18 18 18 18	MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	SF		0.01	0.17	0.00	0.00	0.00	0.17	0.17
e, stab on 1.48 TON STWRRODM4 0.29 21 538 0.00 96.00 126.26 0.00 126.26 0.00 126.26 0.00 126.26 0.00 0.00 1326.20 0.00 0.00 1326.20 0.00 0.00 1326.20 0.00 0.00 1326.20 0.00 0.00 0.00 1326.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00	AA <03372 1600 > Placing conc, elev 10" thick, pumped	CY	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
1.00 EA 1.00 E			00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
1.00 EA 109 2,192 118 6,108 0 8,417 1.00 EA 869 17,220 989 48,998 0 67,207		1.48 TON SIWRRODM		13.89	363.20 538	0.00	963.00 1,425	0.00	1326.20	1326.20
1.00 EA 869 17,220 989 48,998 0 67,207	TOTAL Top Slab	1.00 EA		109	2,192	118	6, 108	0	8,417	8417.41
	TOTAL Stilling Basin Parabolic	1.00 EA		698	17,220	686	48,998	0	67,207	67207.17

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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08.01. Gate CS1 Crest Spillway	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
08.01.03.04.02. Stilling Hydraulic Jump Basin										
08.01.03.04.02.01. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	9.23 TON	TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	193.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 24,368	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	193.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	3120.00 SF	ACMACEF11	67.50	0.01	0.29	00.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	6240.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls	1.00 EA		'	945	18,413	1,199	38,431	0	58,043	58042.54
08.01.03.04.02.02. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	110.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	00.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	459.00 SE	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	5.27 TON	SIWRRODM4	0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	110.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 13,889	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	600.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	600.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	600.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		ı	167	3,485	39	19,347	0	22,871	22871.41

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 08. Crested Spillway PROJECT C43RES:

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2.90 16.22 16.22 0.32 2.90 16.22 TOTAL COST UNIT COST 1241.93 126.26 600.38 1241.93 126.26 126.26 124.34 1241.93 126.26 253 2.90 2.90 126.26 126 009 126.26 38 16.22 0.32 124 16.22 16 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0.81 963.00 126.26 253 963.00 10 126.26 38 126.26 126 EQUIPMNT MATERIAL 00.0 0.81 402 0.00 0.03 65 0.03 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 6.21 12 6.21 0.00 0.00 2 6.21 0.00 LABOR 278.93 00.0 10.01 2.08 278.93 0.00 0.29 2.08 0.29 10.01 0.00 185 10.01 58 10.67 00.0 0.58 0.11 10.67 00.0 0.11 0.00 MANHRS 10 0.58 0.01 0.01 0.58 TUGINO 0.38 0.00 54.38 0.38 0.00 13.75 67.50 13.75 00.0 13.75 54.38 67.50 0.01 TON SIWRRODM4 0.10 TON SIWRRODM4 35.00 SF ACMACEFI1 50.00 SF ACMACEFI1 QUANTY UOM CREW ID CLABC20 CLABC20 CLABC20 66.00 SF ACARC2 ACARC2 N/A 2.00 CY N/A 2.00 CY 0.30 CY 0.30 CY 1.00 CY 20.00 SF 1.00 CY ΕA 1.00 EA 1.00 MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03398 0010 > Finishing walls, break ties M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 08.01.03.04.02.04. Chute Blocks 08.01.03.04.02.03. Shear Key TOTAL Chute Blocks 08.01.03.04.02.05. End Sill patch voids patch voids TOTAL Shear Key plywood 08.01. Gate CS1 Crest Spillway

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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08.01. Gate CS1 Crest Spillway	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
M MIL AA <03217 0700 > Reinforcing in place, walls, #3	0.05 TON SIWRRODM4	0.38	10.67	278.93	00.00	963.00 48	0.00	1241.93	1241.93
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	30.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL End Sill	1.00 EA			101	9	200	0	308	307.54
08.01.03.04.02.06. Bridge Slab									
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	93.00 SF ACARC1	43.75	60.0	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	240,00 SF ACARC2	61.88	0.10	1.83	00.00	1.14	00.0	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monotithic, screed finish	480.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	14.00 CY CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91 139	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	14.00 CY N/A	00.00	00.00	00.00	00.00	126.26	00.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	0.69 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00 664	0.00	1326.20	1326.20
TOTAL Bridge Slab	1.00 EA		51	1,013	53	2,744	0	3,809	3809.37
08.01.03.04.02.07. Top Slab									
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" high, 4 use	48.00 SF ACARCI	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	220.00 SF ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	220.00 SF ACMACEFI1	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	11.00 CY CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	11.00 CY N/A	0.00	00.0	0.00	0.00	126.26	0.00	126.26	126.26

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crésted Spillway PROJECT C43RES:

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1.93 41.37 43.39 33.37 1326.20 88721.03 155,928 155928.20 271,614 271613.59 TOTAL COST UNIT COST 2965.44 42977.10 5713.17 1326.20 676 2,965 33.37 1.93 43.39 5713.17 5,713 88,721 41.37 42,977 OTHER 0.00 0 0 0.00 0.00 0.00 0.00 0 0 0 0.00 963.00 25.96 2,151 1.38 24.71 28,070 27.82 3210.00 3,210 EQUIPMNT MATERIAL 63,340 112,338 198,526 2,343 0.00 3,563 0.15 0.00 170.43 1,354 4.02 6.14 0.57 42 5,858 363.20 185 LABOR 3.39 10.53 24,027 41,247 69,525 0.41 9,049 1.23 15.00 585 2332.74 2,333 0.51 13.89 1,219 2,088 0.09 0.02 0.24 44.78 OUTPUT MANHRS 3,477 416 0.29 9.75 16.61 0.07 54.38 150.00 16.25 0.51 TON SIWRRODM4 165.00 LF ACARCARPI COFGB36C QUANTY UOM CREW ID CODEB3A ULABA2 SIWSE4 1.00 EA SIWSE3 1388.00 SY 347.00 CY 694.00 CY 39.00 LF 1.00 EA 1.00 EA 1.00 EA 1.00 EA ΕÀ 1.00 MIL AA <02244 1510 > Base course, crushed stone, 3/4" max size, compacted, 3"D, large CIV AA <62250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY o MIL AA <03198 1050 > Waterstop, PVC, dumbbell, 9" wide, 3/8" thick, center bulb TOTAL Stilling Hydraulic Jump Basin B MIL AA <05523 0530 > 2 1/2" Dia Steel railing 42" M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 B RSM AA <05130 0450 > 10' Dewatering Needle Beam TOTAL Stilling Basin TOTAL Top Slab TOTAL Concrete TOTAL Rip Rap 08.01.90. Miscellaneous 08.01, Gate CS1 Crest Spillway 08.01.06. Rip Rap

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

1035.63 9677.43

1035.63

0.00

535,00 535 5,863

34.09

466.55 3,588

8.96

0.34

SIWSE3

1.00 EA

B RSM AA <05130 0450 > Needle Beam Buidhead

1.00 EA

9,677

0

227

330,648 330648.27

0

237,317

10,139

83,192

3,986

1.00 EA

TOTAL Gate CS1 Crest Spillway

TOTAL Miscellaneous

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08.02. Gate CS2 Crest Spillway	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	JNIT COST
08.02. Gate CS2 Crest Spillway										
08.02.02. Sheet Piling										
USR IF <02161 0001 > Steel Sheet Pile Cutoff	248.00 SF	CPIDB40	95.63	0.08	3.40	1.62	16.05	0.00	21.07 6,380	25.73
TOTAL Sheet Piling	1.00 EA		1	21	1,029	491	4,859	0	6,380	6380.15
08.02.03. Concrete										
08.02.03.01. Conduits										
08.02.03.01.10. Boxed Conduit										
08.02.03.01.10.01. Conduit Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	59.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	246.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	3.42 TON	SIWRRODM4	0.29	13.89	363.20 1,242	0.00	963.00 3,293	00.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular' weight, 4000 psi	59.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	820.00 SF	ACMACEF11	112.50	0.01	0.17	00.0	0.00	00.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	820.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	00.0	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	820.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Conduit Base Slab	1.00 EA		ı	114	2,401	21	10,948	0	13,371	13370.63
08.02.03.01.10.02. Top Slab										
AF AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nigh, 4 use	246.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.40	0.00	2.05	2.05
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	820.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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08.02. Gate CS2 Crest Spillway	QUANTY UOM CREW ID	CREW ID	LOALOO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
									! ! ! ! ! !	
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	820.00 SF	ACMACEF11	112.50	0.01	0.17	00.00	0.00	0.00	0.17	0.17
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	55.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	55.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, ± 3 to ± 7	3.16 TON	3.16 TON SIWRRODM4	0.29	13.89	363.20	0.00	963.00 3,043	0.00	1326.20	1326.20
TOTAL Top Slab	1.00 EA			173	3,534	209	11,024	0	14,767	14766.54
08.02.03.01.10.03. Malls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	2.10 TON	2.10 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	00.0	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	36.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	36.00 CY	CLABC20	13.75	0.58	10.01	6.21 224	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	984.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	1968.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls	1.00 EA			275	5,332	224	8,200	0	13,755	13755.17
TOTAL Boxed Conquit	1.00 EA			562	11,268	454	30,171	0	41,892	41892.34
08.02.03.01.15. U-Shaped Conduit										
08.02.03.01.15.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	42.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	174.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	2.42 TON	2.42 TON SIWRRODM4	0.29	13.89	363.20 879	0.00	963.00	0.00	1326.20 3,209	1326.20
LABOR ID: C43RES EQUIP ID: C43RES	Currenc	Currency in DOLLARS	w				CREW	CREW ID: NAT01A	UPB ID: UP01EA	UP01EA

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PROJECT C43Res: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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08.02. Gate CS2 Crest Spillway	QUANTY UOM CREW ID	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JAIT COST
							1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	42.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 5,303	0.00	126.26	126.26
MIL AA <03396 0010 > Finishing floors, monolithic, screed finish	580.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 > Finishing floors, monolithic, float finish	580.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	580.00 SF	ACMACEF11	78.75	0.01	0.25	0.00	0.00	0.00	0.25	0.25
TOTAL Base Slab	1.00 EA		•	81	1,700	15	911,7	0	9,494	9493.59
08.02.03.01.15.02. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3	1.50 TON	SIWRRODM4	0.38	10.67	278.93 418	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	26.00 CY	N/A	00.00	00.00	0.00	0.00	126.26 3,283	00.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	26.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	00.00	16.22 422	16.22
MIL AA <03398 0010 > Finishing walls, break ties & patch voids	696.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	00.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood	1392.00 SF	ACARC2	54.38	0.11	2,08	0.00	0,81	0.00	2,90	2.90
TOTAL Walls	1.00 EA		•	195	3,781	161	5,882	0	9,824	9823.89
TOTAL U-Shaped Conduit	1.00 EA			276	5,481	177	13,660	0	19,317	19317.48
TOTAL Conduits	1.00 EA			837	16,748	630	43,832	0	61,210	61209.82
08.02.03.02. Weir Inlet										
08.02.03.02.01. Weir Inset										
08.02.03.02.01.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	98.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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08. Crested Spillway

2.90 0.17 0.22 0.25 OTHER TOTAL COST UNIT COST 1326.20 126.26 23812.38 16.22 16520.94 1241.93 126.26 1241.93 126.26 0.22 1241.93 1326.20 9,522 126.26 0.17 0.25 126.26 8,207 2.90 126.26 23,812 16.22 0.32 16,521 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 963.00 6,914 126.26 00.0 00.0 0.00 963.00 4,594 126.26 8,207 0.03 0.81 296 963.00 126.26 1,136 MATERIAL 00.0 19,480 13, 125 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 LABOR EQUIPMNT 6.21 0.00 404 2,608 0.25 278.93 2.08 278.93 0.00 363.20 0.00 0.22 4,297 0.00 10.01 0.29 313 2,993 0.09 0.00 0.01 0.01 10.67 51 0.58 0.11 10.67 0.00 13.89 0.01 00.0 MANHRS 100 18 197 0.01 13 142 OUTPUT 43.75 78.75 13.75 0.00 0.29 0.00 0.38 00.0 0.38 112.50 90.63 67.50 54.38 1455.00 SF ACMACEFI1 ACMACEF 11 4.77 TON SIWRRODM4 ACMACEF11 0.68 TON SIWRRODM4 7.18 TON SIWRRODM4 QUANTY UOM CREW ID ACARC2 230.00 SF ACARC1 65.00 CY N/A 98.00 CY 1455.00 SF 1455.00 SF 876.00 SF 9.00 CY 65.00 CY 364.00 SF EA 1.00 EA 1.00 MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to ${\rm \rlap{\#}7}$ M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids on MIL AA <03396 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0100 > Fintshing floors, monolithic, float finish monolithic, M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M MIL AA <03217 0600 > Reinforcing in place, slab 08.02.03.02.01.03. Transition To Conduit MIL AA <03396 0010 > Finishing floors, screed finish TOTAL Base Slab 08.02.03.02.01.02. Weir plywood TOTAL Weir 08.02. Gate CS2 Crest Spillway

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Atmy Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway

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08.02. Gate CS2 Crest Spillway	QUANTY UC	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
							; ; ; ; ;			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	ick, 9.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finisning walls, break ties patch voids	s 198.00 SF	ACMACEF11	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nign, 4 use, job built plywood	9 gr, 396.00 SF	ACARC2	54.38	0.11	2.08	00.00	0.81	0.00	2.90	2.90
TOTAL Transition To Conduit	1.00 EA			59	1,162	56	2,120	0	3, 338	3337.74
TOTAL Wear Inlet	1.00 EA	_		398	8,452	495	34,724	0	43,671	43671.06
TOTAL Weir Inlet	1.00 EA	_	,	398	8,452	495	34,724	0	43,671	43671.06
08.02.03.04. Stilling Basin										
08.02.03.04.01. Stilling Basin Parabolic Transition										
08.02.03.04.01.01. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, to #7	نات	4.42 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	109.00 CY	N/A	00.00	0.00	00.0	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	ick, 109.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03398 0010 > Finishing walls, break ties patch voids	4 1100.00 SF	. ACMACEFI1	67.50	0.01	0.29	0.00	0.03	0.00	0.32	0.32
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	gr, 2200.00 SF	. ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls	1.00 EA		•	370	7,227	677	19,843	0	27,747	27746.86
08.02.03.04.01.02. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	64.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	rms, 284.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
LABOR ID: C43RES EQUIP ID: C43RES	Curren	Currency in DOLLARS	,				CREW	CREW ID: NAT01A	A UPB ID: UP01EA	UPO1EA

U.S. Army Corps of Engineers C43 West Storage Reservoir – South Florida Water Management 30% Submittal 08. Crested Spillway PROJECT C43RES;

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0.17 0.22 2.49 126.26 0.25 40551.45 16.22 0.32 2.90 4.28 TOTAL COST UNIT COST 1326.20 1241.93 126.26 22762.26 12804.58 326.20 0.22 126.26 8,081 0.17 0.25 40,551 1241.93 126.26 9,975 16.22 393 2.90 22,762 2.49 12,805 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 10 0.00 0.00 0 0.00 963.00 2,504 126.26 8,081 00.0 0.00 126.26 9,975 0.03 0.81 0.00 0.83 00.0 963.00 3,110 00.0 LABOR EQUIPMNT MATERIAL 15,118 30,665 10,821 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 0.00 0.00 0.36 23 0 491 363.20 3.93 00.0 0.17 0.22 0.25 9,187 278.93 00.0 2.08 1.65 1,960 10.01 791 0.29 7,154 8 13.89 0.00 0.58 0.01 0.11 0.29 0.09 0 0.01 0.01 0.01 9 96 10.67 00.0 MANHRS 465 369 TUGINO 90.63 0.29 0.00 78.75 20.63 43.75 0.38 0.00 13.75 67.50 112.50 54.38 2.60 TON SIWRRODM4 465.00 SF ACMACEFIL 465.00 SF ACMACEFI1 ACMACEF 11 3.23 TON SIWRRODM4 ACMACEF11 QUANTY UOM CREW ID CLABC20 ACARC2 ULABC6 293.00 SF ACARC1 N/A 64.00 CY 79.00 CY 465.00 SF 59.00 CY 79.00 CY 1226.00 SF 2451.00 SF 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nign, 4 use, job built MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0150 > Finishing floors, monolithic, broom finish monolithic, monolithic, MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps. 08.02.03.04.02. Stilling Hydraulic Jump Basin TOTAL Stilling Basin Parabolic MIL AA <03396 0010 > Finishing floors, screed finish MIL AA <03396 0100 > Finishing floors, float finish 08.02.03.04.02.02. Base Slab TOTAL Base Slab 08.02.03.04.02.01. Walls plywood 08.02. Gate CS2 Crest Spillway

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

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0.17 0.22 0.25 16.22 2.90 16.22 0.32 TOTAL COST UNIT COST 1326.20 126.26 11818.70 1241.93 587.96 126.26 1241.93 126.26 0.22 0.17 1326.20 3,183 126.26 7,449 0.25 1241.93 126.26 253 1241.93 12 16.22 16.22 2.90 126.26 38 0.32 11,819 588 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 963.00 2,311 126.26 7,449 0.00 0.00 0.00 126.26 253 0.00 0.81 963.00 10 126.26 38 0.03 MATERIAL 393 10,005 EQUIPMNT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.21 0.00 0.00 6.21 21 12 LABOR 363.20 872 0.00 0.17 0.22 0.25 278.93 00.0 2.08 0.00 0.29 1,792 10.01 10.01 20 183 278.93 13.89 0.00 0.01 10.67 0.00 0.58 0.11 10.67 0.00 0.58 0.01 0 0.01 0.01 88 0 MANHRS OUTPUT 0.29 0.00 90.63 78.75 0.00 13.75 13.75 67.50 0.38 0.38 0.00 54.38 112.50 0.09 TON SIWRRODM4 2.40 TON SIWRRODM4 ACMACEF 11 323.00 SF ACMACEFI1 323.00 SF ACMACEFI1 0.01 TON SIWRRODM4 ACMACEF 11 ü CLABC20 CLABC20 66.00 SF ACARC2 QUANTY UOM CREW N/A N/A N/A CY 59.00 CY 323.00 SF 2.00 CY 0.30 CY 35.00 SF 2.00 CY 1.00 EA 1.00 EA 0.30 MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, o MIL AA <03398 0010 > Finishing walls, break ties & MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish monolithic, M RSM AA <03326 0300 > Concrete ready mix, regular M MIL AA <03217 0600 > Reinforcing in place, slab grade, #3 to #7 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03396 0010 > Finishing floors, screed finish weight, 4000 psi 08.02.03.04.02.04. Chute Blocks 08.02.03.04.02.03. Shear Key patch voids TOTAL Base Slab TOTAL Shear Key ptywood 08.02. Gate CS2 Crest Spillway

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A

UPB ID: UP01EA

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway PROJECT C43RES:

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2.90 0.32 16.22 2.90 0.32 16.22 2.90 124.34 1241.93 295.12 TOTAL COST UNIT COST 126.26 405.04 126.26 1241.93 2.90 1241.93 0.32 2.90 126.26 126 2.90 126.26 295 124 405 63 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.81 963.00 19 126.26 63 0.00 0.81 0.03 EQUIPMNT MATERIAL 0.03 00.0 126.26 126 963.00 0.81 65 164 191 0.00 0.00 0.00 6.21 0.00 0.00 0.00 0.00 0.00 0.00 m 6.21 LABOR 2.08 2.08 2.08 10.01 278.93 0.00 238 0.00 58 10.01 98 10.67 0.00 0.11 0.11 0.00 0.11 S OUTPUT MANHRS 0.58 0.01 0.58 10.67 0.01 13 0.38 0.00 67.50 54.38 67.50 13.75 0.00 0.38 54.38 13,75 54.38 0.02 TON SIWRRODM4 96.00 SF ACMACEFI1 50.00 SF ACMACEFI1 0.04 TON SIWRRODM4 QUANTY UOM CREW ID 0.50 CY CLABC20 CLABC20 20.00 SF ACARC2 96.00 SF ACARC2 ACARC2 0.50 CY N/A N/A 1.00 CY 1.00 CY 30.00 SF 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 #3 MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03372 5100 > Placing conc, walls, 12" thick, MIL AA <03398 0010 > Finishing walls, break ties & patch voids MIL AA <03398 0010 > Finishing walls, break ties & patch voids M MIL AA <03217 0700 > Reinforcing in place, walls, to #7 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi 08.02.03.04.02.05. Baffle Blocks TOTAL Baffle Blocks TOTAL Chute Blocks 08.02.03.04.02.06. End Sill TOTAL End Sill plywood plywood 08.02. Gate CS2 Crest Spillway

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
08. Crested Spillway PROJECT C43RES:

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DETAIL PAGE

TIME 09:25:13

2.05 0.17 43.39 2.98 9.91 1.93 41.37 7.49 TOTAL COST UNIT COST 126.26 1326.20 3676.75 39670.17 80221.62 185,103 185102.51 33.37 33025.52 2.98 0.17 9.91 126.26 1326.20 2.05 3,677 39,670 80,222 33.37 1.93 41.37 33,026 7.49 43.39 OTHER 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 0 0 0 1.14 0.00 126.26 1,768 963.00 568 25.96 6,931 6.26 0.00 1,38 24.71 13,168 27.82 723 EQUIPMNT MATERIAL 2,647 21,572 59,247 137,802 28,582 0.00 0.00 0.00 3.80 0.00 1,288 4.02 0.00 0.57 00.0 2,413 0.15 6.14 53 589 0 4,501 LABOR 6.12 1.83 0.17 0.00 3.39 0.41 10.53 6,952 1.23 15.00 440 83 916 363.20 214 10,500 19,686 44,887 0.09 0.10 0.36 00.0 0.09 90.0 0.24 0.01 0 2,236 0.02 0.51 13.89 49 536 1,001 MANHRS 43.75 DUTPUT 61.88 0.29 54.38 150.00 9.75 22,50 0.00 16.25 112.50 16.61 0.59 TON SIWRRODM4 ACMACEF11 92.00 LF ACARCARP1 COFGB36C ΙD CLABC20 CODEB3A ACARC1 240.00 SF ACARC2 1067.00 SY ULABA2 26.00 LF SIWSE4 QUANTY UOM CREW 14.00 CY N/A 93.00 SF 480.00 SF 14.00 CY 533.00 CY 267.00 CY 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas AA <03150 7101 > Forms in place, alt price, elev slab, edge, 7"-12" nigh, 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plawd 15'-20' nign 4 use 2140 > Geotextile fabric, 120 mil thick, non-woven polypropytene over MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 = 1/4 CY M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03198 1050 > Waterstop, PVC, dumbbell, 9" wide, 3/8" thick, center bulb TOTAL Stilling Hydraulic Jump Basin MIL AA <03396 0010 > Finishing floors, monolithic, screed finish B MIL AA <05523 0530 > 2 1/2" Dia Steel railing 42" M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi AF AA <03372 1600 > Placing conc, elev slabs, 08.02.03.04.02.07. Bridge Slab TOTAL Stilling Basin TOTAL Bridge Slab TOTAL Concrete TOTAL Rip Rap 08.02.90. Miscellaneous CIV AA <02250 08.02. Gate CS2 Crest Spillway 08.02.06. Rip Rap

UPB ID: UP01EA

CREW ID: NAT01A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

CREW ID: NATO1A UPB ID: UP01EA

TIME 09:25:13 DETAIL PAGE 238	UNIT COST	5713.17	1035.63	8566.35	233,075 233074.52	563,723 563722.79
TIME DETAIL E	OTHER TOTAL COST UNIT COST	5713.17 5,713	1035.63	8,566	0 233,075	563,723
	OTHER	0.00	0.00	0	0	0
	MATERIAL	3210.00 3,210	535.00	5,044	7,625 169,278	4
nent T	LABOR EQUIPMNT MATERIAL	170.43	34.09	219	6,171 7,625	17,765
cer Managen		2332.74		3, 303	U)	6,628 139,363
orida Wat	TPUT MANHRS	44.78	8.96	99	2,642	6,628
gineers - South Flo way	OUTPUT MANHRS	0.07	0.34			
Army Corps of Enginitorized Reservoir - S. 30% Submittal	4 CREW ID	SIWSE3	SIWSE3			
U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 08. Crested Spillway	QUANTY UOM CREW ID OU	1.00 EA	1.00 EA	1.00 EA	1.00 EA	1.00 EA
PROJECT C43RES:	lway	B RSM AA <05130 0450 > 10' Dewatering Needle Beam	B RSM AA <05130 0450 > Needle Beam Buidhead	TOTAL Miscellaneous	TOTAL Gate CS2 Crest Spillway	TOTAL Crested Spillway
Wed 31 May 2006 Eff. Date 05/31/06 DETALLED ESTIMATE	08.02. Gate CS2 Crest Spillway	B RSM AA <05130	B RSM AA <05130			

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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OTHER TOTAL COST UNIT COST LABOR EQUIPMNT MATERIAL OUTPUT MANHRS QUANTY UOM CREW ID 09.01. Gate S7

09. Gated Culvert 09.01. Gate S7

09.01.03. Concrete

09.01.03.01. Slab On Grade

09.01.03.01.01. Base Slab

09.01.03.01.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	240.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	390.00 SF	ACARC1	43.75	90.00	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	21.70 TON	SIWRRODM4	0.29	13.89	363.20 7,881	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	240.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26 30,302	126.26
TOTAL Base Slab	1.00 EA		•	407	9,467	98	51,525	0	61,079	61078.53
TOIAL Slab On Grade	1.00 EA		'	407	9,467	98	51,525	0	61,079	61078.53
09.01.03.03. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	26.51 TON	TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00 25,529	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	238.00 CY	N/A	0.00	0.00	0.00	0.00	126.26 30,050	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	238.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	8560.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 6,961	0.00	2.90	2.90
TOTAL Walls	1.00 EA		1	1,365	27,617	1,478	62,540	0	91,635	91635.50

U.S. Atmy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.01. Gate S7	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
09.01.03.07. Elevated Slabs										1
09.01.03.07.01. Elevated Slab										
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' high 4 use	4450.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	00.00	2.98	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	155.00 CY	CLABC20	22.50	0.36	6.12	3.80	00.0	00.00	9.91	5 6
M RSM AA <03326 0300 > Concrete ready mix, regular weignt, 4000 psi	155.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	15.53 TON	N SIWRRODM4	0.29	13.89	363.20	0.00	963.00 14,955	0.00	1326.20	1326.20
TOTAL Elevated Slab	1.00 EA		,	702	14,739	588	39,620	0	54,947	54947.43
TOTAL Elevated Slabs	1.00 EA		•	702	14,739	588	39,620	0	54.947	54947 43
09.01.03.08. Beams									•	
09.01.03.08.01. Needle Beams										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.50 TON	N SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	4.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126,26	126.26
MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket	4.00 CY	ULABC7	8.13	0.98	16.94	13.44	0.00	00.0	30.38	30 38
CIV AA <03138 2150 > Forms in place, 12" w, plywood, ⁴ use, Beams & girders	192.00 SF	ACARC2	47.13	0.13	2.40	0.00	1.02	00.00	3.42	3.42
TOTAL Needle Beams	1.00 EA		I	34	699	54	1,182	0	1,904	1904.40
TOTAL Beams	1.00 EA		ı	- }	699	54	1,182	0	1,904	1904.40
TOTAL Concrete	1.00 EA		1	2,508	52,492	2,206	154,867	0	209,566	209565.86
09.01.04. Erosion Control System										
MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	2680.00 CY	COFGB36C	54.38	0.09	3.39	4.02	25.96 69,568	0.00	33.37 89,427	33.37

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

09.01. Gate S7

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

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1.93

144,035 144034.73 TOTAL COST UNIT COST 90310.93 95791.35 48243.37 95791.35 90,311 48243.37 1.93 33.37 1.93 114.58 64,167 41.37 64,167 0.00 0.00 0.00 0.00 0.00 0.00 OTHER 0 0 0.00 52965.00 52,965 26750.00 26,750 85.60 47,936 LABOR EQUIPMNT MATERIAL 70,199 25.96 8,281 1.38 24.71 15,738 47,936 7565.63 3796.98 0.15 11,363 4.02 1,06 591 0.15 6.14 10,848 35260.72 17696.39 17,696 186 27.93 15,640 52,957 3,39 0.41 10.53 15,640 597.01 597 299.63 0.02 256 897 0.45 0.09 0.02 0.51 MANHRS 251 OUTPUT 0.03 0.01 8.93 54.38 9.75 150.00 150.00 319.00 CY COFGB36C QUANTY UOM CREW ID 1.00 EA SIWSE21 CODEB3A 1.00 EA SIWSE21 ULABA2 SIMSE4 ULABA2 457.00 SY 560.00 SF 1275.00 SY 637.00 CY 1.00 JB 1.00 EA ËÀ 1.00 EA MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene thick, non-woven polypropylene MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY CIV AA <02250 2140 > Geotextile fabric, 120 mil USR AA <05150 0001 > Slide Gate 10' x 10' SST TOTAL Erosion Control System USR AA <05150 0001 > Weir Gate 10' x 5' SST TOTAL Stop Logs USR AA <05548 0611 > Stop Log TOTAL Rip Rap TOTAL Gates

09.01.06. Stop Logs

09.01.05. Gates

09.01.07. Rip Rap

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

1.93

41.37 39465.89

39,466

25,778

5,379

8,308

1.00

4787.43

4029.48

0.00

2140.00 2,543

0.00

1889.48 2,245

36.90 92.59

0.03

1.00 EA EELEELEC1

11353.73

9556.20

0.00

4815.00 11,441

0.00

4741.20

185

0.01

EELEELEC1

2.00 EA

USR EL <16119 0002 > Actuator Starter & Remote Cutris

USR EL <16119 0001 > RIU\MOSCAD

09.01.11. Electrical

USR EL <16711 0011 > Meter Connection by Utility

831.67

700.00

700.00

0.00

0.00

0.00

0.00

0.00

1.00 LS

33.37

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal

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09. Gated Culvert
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09.01. Gate S7		QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
							; ; ; ; ;	1			
	USR EL <16181 5999 > Grounding, Laid in trench, copper, bare stranded, #6	0.07 MLF	FELER18	0.55	6.00	165.56	0.00	363.80	0.00	529.36	628.93
	RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position	1.00 EA	EELEELEC1	0.40	2.50	128.01	0.00	29.48	0.00	157.49	187.12
	AF EL <16622 5230 > HID fxtr, floodlight, 250W high press sodium lamp, encl, heavy duty	13.00 EA	EELER19	0.69	3.63	186.79	00.00	391.89 6,053	0.00	578,68 8,938	687.53
	USR EL <16611 4100 > Compact Fluorescent	7.00 EA	BELER19	1.00	2.50	128.51	0.00	181.90	0.00	310.41	368.80
	USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, ctagonal, conc	10.00 EA	EELER15	09.0	10.00	499.44 5,934	85.16 1,012	214.00	0.00	798.59	948.81
	MIL EL <16617 1040 > Lighting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, tapered	10.00 EA	EELER15	0.82	7.33	365.89	62.38	903.35	0.00	1331.62	1582.10
	USR EL <16617 0002 > Lighting, poles, wood, 20' NOTE: Use for Meter Pole	1.00 EA	EELER15	3.00	2.00	99.89	17.03	460.10	0.00	577.02 686	685.56
	MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1	1.00 EA	BELEELEC1	0.21	4.85	248.57	0.00	514.97 612	0.00	763.54	907.16
	USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole	13.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75 2,066	0.00	236.16	280.58
	MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for Panel L	1.00 EA	BELEELEC1	0.12	8.47	433.94	0.00	332.77 395	0.00	766.71 911	910.93
	USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting Controller	1.00 EA	BELEELEC1	0.42	2.40	122.79 146	00.00	802.50 953	0.00	925.29	1099.34
	USR EL <16333 1401 > Photo-cell	1.00 EA	EELER19	1.88	1.33	68.30 81	0.00	128.40	0.00	196.70	233.70
	USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting Controller	1.00 EA	ULABC6	0.75	8.00	107.95 128	9.87	107.00	0.00	224.82 267	267.11
	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	1430.00 LF	COETR23	33.25	0.11	4.64	4.30	0.00	0.00	8.93 15,179	10.61

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Callvert PROJECT C43RES:

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6.45 5.20 6.13 7.19 8.66 7.19 612.55 56.67 12.97 84.59 TOTAL COST UNIT COST 522.84 1100.03 2730.93 467.03 615.34 952.34 UPB ID: UP01EA 440.07 925.88 2298.57 6.05 10.92 156 393.09 517.92 71.20 7.29 5.43 1,982 47.70 4.38 5.16 552 801.57 101 515.57 CREW ID: NAT01A 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 0.91 69.02 18 105.93 32.53 0.54 3.21 321.00 269.11 354.06 421 53.50 0.80 1049.67 1.12 EQUIPMNT MATERIAL 0.91 293.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 65.02 0.00 0.00 0.00 0.00 0.00 0.00 LABOR 7.71 123.98 163.86 17.70 21 5.14 4.63 371.05 95 409.64 632.16 4.11 4.63 415.55 5.14 6.17 44 248.90 495 49 7.25 8.00 12.35 24.39 0.30 0.08 0.09 0.10 0.15 7.99 2.42 3.20 0.35 0.12 0.10 0.09 0 MANHRS 16.67 OUTPUT 0.13 27.78 2.89 25.00 27.78 0.14 0.08 0.04 3.38 25.00 0.31 0.41 0.31 31.25 20.83 Currency in DOLLARS 0.22 MLF EELEELEC1 1.55 MLF EELEELEC1 0.08 MLF EELEELEC1 EELEELEC1 EELEELEC1 **EELEELEC1** EELEELEC1 3.24 MLF EELEELEC1 G EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER3 QUANTY UOM CREW 50.00 EA EA 14.00 EA ΕÀ 12.00 EA EA 1.00 EA 90.00 EA 1.00 EA 2.00 EA 6.00 EA 22.00 EA 8.00 1.00 1.00 EL <16333 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2 USR EL <16232 2483 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex WP MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEWA 3R MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12 MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex MIL EL <16711 0500 > Elec & tel sitewk, 2'x2'x2'-6"
D, hand holes, precast conc, USR EL <16153 0010 > Cable Termination #1/0 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0013 > Cable Termination #10 USR EL <16153 0011 > Cable Termination #4 USR EL <16153 0012 > Cable Termination #6 USR EL <16153 0013 > Cable Termination #8 USR EL <16153 0012 > Cable Termination EQUIP ID: C43RES MIL LABOR ID: C43RES 09.01. Gate S7

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
90. Gated Culvert PROJECT C43RES:

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COST 5.20 5.08 5.60 7.83 10.23 2.55 4.13 5.60 4.13 2.55 10.23 7.83 2.14 2.55 125.73 111.46 TOTAL COST UNIT 4.38 4.27 6.59 3.47 4.71 8.61 2.14 93.82 1,422 8,146 3.47 2,188 2,291 1.80 8.61 2.14 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 0.57 3.49 0.16 1.43 2.18 3.49 0.57 1.20 0.57 EQUIPMNT MATERIAL 1.20 2.18 0.39 39.80 1.43 14.19 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 LABOR 1.41 54.01 4.11 4.406,233 1.58 3.28 1,58 5.12 1.58 2.28 1,433 314.14 2.28 3,407 0.03 0.10 6.14 0.06 0.09 0.10 90.0 0.04 0.03 60.0 0.03 1.05 0.08 0.04 26 0 0.03 MANHRS OUTPUT 31.25 15.63 15.63 22.50 32.50 0.16 1.24 36.25 31.25 11.63 10.00 32.50 22.50 10.00 11.63 32.50 EELEELEC1 **EELEELEC1** EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELECL **EELEELEC1** EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER19 EELER19 EELER20 0.07 MLF 12.00 EA MIL EL <16018 0540 > Conquit to 15' H, 1" dia, incl couplings only, steel rigid galv 1191.00 LF 1260.00 LF 478.00 EA 54.00 EA 254.00 LF 90.00 LF 3200.00 LF 75.00 LF 530.00 LF 900.00 LF 20.00 LF 5.00 LF 70.00 LF 1490.00 LF MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16712 1030 > Conduit, direct burial only, PVC scned 40, 1" dia, w/coupling couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl 0580 > Conduit to 15' H, 1.5" dia, incl MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOIE: Use for #14, 3 pr #20, and #10 Wire, 600 volt, type THWN-THHN, copper, solia, #14 MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling MIL EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, w/coupling USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0016 > Cable Termination #16 0320 > RSM EL <16119 0920 MIL EL <16018 CIV EL <16153 09.01. Gate S7

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Atmy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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0.00 105.93 0.00 0.00 10.70 0.00 20.33 0.00 0.00 428.54 0.00 0.00 428.54 0.00 0.00 293.72 0.00 0.00 293.72 0.00 0.00 69.02 0.00 0.00 69.02 0.00 0.00 69.04 0.00 0.00 69.67 0.00 0.00 69.89 0.00 0.00 69.98 0.00 0.00 69.98 0.00 0.00 69.99 0.00 0.00 44.60 0.00 0.00 17,798 0.00 0.00 0.00 0.00	8.1	QUANTY UOM CREW	REW ID	TUGILO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	
EL 416325 03100 > Parallboarexidi of cre cet print, 15 - 1.00 EA ERLERLECI 1.00 1.00 51.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00	MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranged, #10	ALF	ELEELEC1	0.13	8.00	409.64	0.00	105.93	0.00	515.57	
EL <16326 0310 > Pamelboarcdid ctr cat britz 70 - 100 EA ERIBELECI 1.00	EL <16326 0100 > Panelboard&Ld ctr ckt brkr,15 50A,bolt-on,10k AIC,1 P,120V	EA	ELEELECI	1.25	0.80	40.96	0.00	10.70	0.00	51.66	
EL <16329 4340 > Panelhoard assem, 20-20A brkr, 10.0 EA ERLERLECI 0.08 12.3 630.60 0.00 428.54 0.00 0.00 0.00 10.00 0.00 0.00 0.00 0.	EL <16326 0310 > Panelboard&ld ctr ckt brkr,70 100A, bolt-on,10k AIC,1 P,120V	EA	ELEELECI	1.00	1.00	51.21	0.00	20.33	0.00	71.54	
EL (16119 1600) Wire, 600 volt, type THNN-THHN, c.59 MLF ELLELLECI C.24 4.29 215.15 0.00 293.18 0.00 Copper, stranded, 1/0 Line EL (16119 1350) Wire, 600 volt, type THNN-THHN, c.50 MLF ELLELLECI C.24 2.35 0.00 0.00 293.12 0.00 Copper, stranded, 1/0 Line MLF ELLELLECI C.24 2.35 0.10 0.00 293.72 0.00 Copper, stranded, 1/0 Line MLF ELLELLECI C.24 2.35 0.10 0.00 293.72 0.00 Copper, stranded, 1/0 Line MLF ELLELLECI C.24 1.25 0.10 0.00 293.72 0.00 Copper, stranded, 1/0 C.24 MLF ELLELLECI C.24 1.25 0.00 0.00 69.02 0.00 0.00 Copper, bare stranded, 1/0 C.24 MLF ELLELLECI C.24 1.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Panelboard assem, main 1ugs, 100A, 120/240V NOTE: Use for dist panel L	EA	ELEELEC1	0.08	12.32	630.60	0.00	428.54 509	0.00	1059.14	
EL (16119 1500) Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 copper, stranded,	EL <16337 1700 > Safety switch, heavy duty, V, 3 pole non fused, 100 A	EA	ELEELEC1	0.24	4.20	215.15 256	0.00	293.18	0.00	508.33	
EL <16119 1350 > Wire, 600 volt, type THWN-THHW, copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, stranded, #6 copper, pare stranded, #6 co	EL <16119 1600 > Wire, 600 volt, type copper, stranded, 1/C	MLF	ELEELEC1	0.04	24.39	1248.90 868	0.00	1049.67	0.00	2298.57	
EL <16119 1200 > Wile, 600 volt, type THWN-THHN, 6.62 MLF ELLELECI 0.14 48 2,916 0.00 69.02 0.00 copper, stranded, #12	EL <16119 1350 > Wire, 600 volt, type copper, stranded, #6		ELEELEC1	0.08	12.35	632.16	0.00	293.72	0.00	925.88	
EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4	EL <16119 1200 > Wire, 600 volt, type copper, stranded, #15		ELEELECI	0.14	7.25	371.05	0.00	69.02 542	0.00	440.07	
EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, 21.00 EA EELER19 1.94 27 1,654 0.00 19.57 0.00 4488 0.00 cadweld cadweld steel, NEMA 4, 1.00 EA EELEELECI 0.63 2 97 0.00 69.67 0.00 833 0.00 EL <16213 0380 > Pull box, sneet metal, NEMA 1, 1.00 EA EELEELECI 0.63 2 97 0.00 69.98 0.00 EL <16213 0330 > Pull box, sneet metal, NEMA 1, 1.00 EA EELEELECI 0.63 2 16 0.00 69.98 0.00 69.98 0.00 EL <16213 0330 > Pull box, sneet metal, NEMA 1, 1.00 EA EELEELECI 0.63 2 16 0.00 69.98 0.00 69.98 0.00 EL <16213 0330 > Pull box, sneet metal, NEMA 1, 1.00 EA EELEELECI 0.63 2 16 0.00 69.98 0.0	EL <16181 6000 > Grounding, laid in copper, bare stranc	MLF	ELER18	0.55	00.9	165.56	0.00	360.59	0.00	526.15	
EL <16213 2744 > Pull box, hinged, steel, NEMA 4, 1.00 EA ELLELECI 0.63 2 97 0.00 69.67 0.00 EL <16213 0380 > Pull box, sheet metal, NEMA 1, 2.16 ELLELECI 0.64 6 394 0.00 69.98 0.00 EL <16213 0300 > Pull box, sheet metal, NEMA 1, 2.10 EA ELLELECI 0.53 2.16 110.59 0.00 69.98 0.00 EL <16213 0300 > Pull box, sheet metal, NEMA 1, 2.10 EA ELLELECI 0.53 2.5787 0.00 44.60 0.00 EL <16213 0300 > Pull box, sheet metal, NEMA 1, 2.00 EA ELLELECI 0.53 2.5787 0.00 44.60 0.00 EL <16213 0300 > Stilling well 2.00 EA ELLERIS 0.01 439 2.5787 0.17,798 0.00 EL <16712 1050 > Conduit, direct burial only, PVC schedult, direct burial o	EL <16181	EA	ELER19	1.94	1.29	66.31	0.00	19.57	0.00	85.88 2,143	
EL <16213 0380 > Pull box, sneet metal, NEWA 1, type SC, 24"W x 18"H x 6"D	<pre><16213 2744 > Pull box, hinged, steel, NEMA 12"W x 12"H x 6"D</pre>		ELEELECI	0.63	1.60	81.93	0.00	69.67	0.00	151.60	
EL <16213 0330 > Pull box, sneet metal, NEMA 1, type SC, 18"W x 18"H x 6"D	EL <16213 0380 > Pull box, sheet metal, NEMA type SC, 24"W x 18"H x 6"D	EA	ELEELEC1	0.46	2.16	110.59	0.00	69.98	0.00	180.57	
2.00 EA EELER19 0.01 439 26,787 0 17,798 0.00 PVC 555.00 LF EELEELECT 22.50 25 1,501 0 790 0	EL <16213 0330 > Pull box, sheet metal, NEMA type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6"	EA	ELEELECI	0.53	1.90	97.53 116	0.00	44.60	0.00	142.13 169	
PVC 555.00 LF EELEELECI 22.50 25 1,501 0 790 0	EL <16820 3580 >	EA	ELER19	0.01	219.30	11273.03 26,787	0.00	7490.00	0.00	18763.03 44,585	
			ELEELECI	22.50	0.04	2.28	0.00	1.20	0.00	3.47	

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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1.00 EA EELER19 1.00 EA EELER19 4.00 EA EELER18 2.00 EA EELER19 1.00 EA EELER19 1.00 EA EELER19	0.83 0.31 0.25	3.00 1.29 1.29 3.19 3.19 4.00	154.28 183 66.31 2,481 2,481 1,018 204.82		160.50 191 19.57 23 3210.00 3,814 1,683 2,070		314.78 374 85.88 102 6,298.43 6,295 517.66 2,460	373.99 102.04 6295.07 615.03
1.00 EA EELER19 1.00 EA EELER18 ch 2.00 EA EELER19 1.00 EA EELER19 1.00 EA EELER19 1.00 EA EELER19	7		66.31 2088.43 2,481 163.59 163.59 1,018 204.82		3210.00 3,814 3,814 1,683 2,070	0 0 0 0 0	85.88 102 5298.43 6,295 517.66 2,460	15. 6.
undation, 1.00 EA EELER18 cable, dty, 30 amp, 3 pole NEWA 4.00 EA EELEBLEC1 nt, NEWA 1, w/disc switch 2.00 EA EELEBLEC1 effw x 30"H x bl dr, NEWA 1.00 EA EELEBLEC1 enclosure 1.00 EA EELER19 y Utility 1.00 LS	7		2088.43 2,481 163.59 1777 428.38 1,018 204.82	00 00 00 00	3,210.00 3,814 354.06 1,683 2,070	00 00 00	5298.43 6,295 6,295 517.66 2,460	15 6 62
dty, 30 amp, 3 pole NEMA		3.19 13 8.33 4.00	163.59 777 428.38 1,018 204.82 243	00.00.00.00.000.000.0000.0000.0000.0000.0000	354.06 1,683 871.23 2,070	00.0	517.66 2,460	135
Motor starter & cont, NEMA 1, size 1, comb, rev, w/disc switch 2.00 EA EELER19 Cabinet, hinged, 36"W x 30"H x 12"D, sneet met, dbi dr, NEMA 1.00 EA EELEELEC1 3R NOTE: Use for RTU enclosure Photo-cell 1.00 EA EELER19 Meter Connection by Utility 1.00 LS		8.33 17 4.00	428.38 1,018 204.82 243	00.00	871.23 2,070	00.0		15
Cabinet, hinged, 36"W x 30"H x 12"D, sneet met, db1 dr, NEMA 3R NOTE: Use for RTU enclosure Photo-cell 1.00 EA EELERLEC1 Meter Connection by Utility 1.00 LS	0.25	4.00	204.82	c c		>	1299.60 3,088	
1.00 EA EELER19 1.00 LS				00.0	363.73 432	00.0	568,55 675	675.49
1.00 LS	1.88	1.33	68.30 81	0.00	128.40	0.00	196.70 234	233.70
DOM DT /10001 / 10001	00.00	0.00	0.00	0.00	0.00	700.00	700.00	831.67
ASM EL 110324 0100 / Meter Centers & SOCKETS, 4 Term, 100 A, SOCKET, 1 POSITION 1.00 EA EELEELEC1 (0.40	2.50	128.01 152	0.00	29.48	0.00	157.49	187.12
MIL EL <16338 4400 > Safety switch, nvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 2.00 EA EELEELEC1 (0.21	4.85	248.57 591	0.00	514.97	00.00	763.54	907.16
USR EL <13810 5471 > Surge Suppressor 1.00 EA EELER19	0.48	5.26	270.55	0.00	107.00	0.00	377.55	448.57
USR EL <13810 0001 > Limit and Rotary Switches 6.00 EA MSHMG20	0.59	4.23	111.98	0.00	26.75	0.00	138.73	164.83
USR EL <13810 0002 > Push Button Stations 4.00 EA MSHMQ20	0.63	4.00	105.93 503	0.00	53.50 254	0.00	159.43 758	189.42
USR EL <16153 0016 > Caple Termination #10 128.00 EA EELER19 2º	27.78	0.09	4.63	0.00	0.54	0.00	5.16	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Callvert PROJECT C43RES;

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55.75 5.14 54.64 1620.70 157.49 524.68 270.65 736.09 910.17 848.03 1656,64 708.21 708.21 TOTAL COST UNIT COST 280.58 619.55 713.77 3,392 1394.36 132.55 596.08 1,416 596.08 1,416 441.62 2,099 227.80 2,165 4.33 45.99 46.92 766.07 1,820 236.16 1364.11 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,081 30.82 9.68 1,182 371.08 882 246.10 1,170 133.75 134.20 535.00 636 65.16 310 454.75 1,081 322.07 151.62 LABOR EQUIPMNT MATERIAL 0.00 0.00 0.00 0.00 0.00 0.00 57.54 68.12 324 0.00 0.00 0.00 0.00 0.00 17.77 42 337.46 399.55 67.39 141.33 141.33 336 119.55 568 76.18 724 4.11 15.17 37.24 104.23 102,41 260.16 852 258 985 829.11 0.08 6.76 8.00 2.00 1.43 2.76 2.76 2.33 1.62 0.30 0.73 2.09 9.43 16 16.13 MANHRS 2.88 2.88 0.89 0.75 0.16 0.72 0.72 1.08 OUTPUT 31.25 3.38 1.38 0.50 0.35 3.25 2.00 EA EELEELEC2 EELEELEC2 EELEELEC1 EELEELEC1 EELEELEC1 Ω EELER19 EELER15 EELER15 EELER15 EELER19 EELER19 EELER22 0.84 MLF EELER18 EELER22 QUANTY UOM CREW 4.00 EA EA 12.00 EA EA 1.00 EA 2.00 EA 4.00 EA 2.00 EA 2.00 EA 4.00 EA 7.00 EA 4.00 EA 2.00 8.00 security, ext wall NOIE: Use for type D (250w Metal MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, MIL EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12) MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex USR EL <16181 0105 > Ground Rod 3/4" \times 20' Long amp, enclosed 600 volt, 3 pole Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8) υ USR EL <16611 0001 > Ltg fxtr, 175w Metal Halide (EH-1) B USR EL <16622 3010 > Ltg fxtr, 175w Metal Halide (EH1) NOTE: Use for fixture type MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0 NOTE: Use for fixture type USR EL <16617 3300 > Light Pole Foundation USR EL <16153 0014 > Cable Termination #14 MIL EL <16622 3060 > Ltg, HID fxtr,250W Halide EH9) USR EL <16865 0125 > Level Gage tapered MIL EL <16611 3030 > ΑF 09.01. Gate S7

UPB ID: UP01EA

CREW ID: NATO1A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir ~ South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

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0.17 10.61 12.97 300,783 300783.45 17.95 1454.43 825.12 400.49 25083.87 4066.14 1099.34 1090.80 126.26 TOTAL COST UNIT COST 50586.44 50586.44 925.29 10.92 3422.39 8.93 1224.16 694.48 337.08 25,084 1.48 17.95 0.17 631 21112.59 126.26 OTHER 0.00 0.00 0.00 0.00 00.0 0.00 0.00 0.00 0.00 0.00 0.00 0 00.0 0 1,663 0.00 0.00 182.44 18725.00 41730.00 0.00 3107.28 802.50 727.60 EQUIPMNT MATERIAL 42.80 00.0 125,345 448.33 126.26 631 1676.22 1,676 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 7.94 0.00 4.30 323.02 27,000 LABOR 4.64 7180.22 7,180 122.79 0.96 363.20 10.01 50 0.17 294.28 2,453 00.0 487 146,775 775.83 512.05 2064.57 315.11 5.75 0.15 130.08 0.01 0.11 15.15 10.00 6.15 2.40 2,562 0.05 0.00 40 0.58 MANHRS 39.68 13.89 OUTPUT 90.0 0.42 90.0 0.07 0.10 0.17 0.16 75.00 0.29 0.00 13.75 33.25 16,67 112.50 264.00 SF ACMACEFI1 EELEELEC1 0.20 TON SIWRRODM4 0.03 MLF EELEELEC1 0.80 MLF EELEELEC1 0.16 MLF EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER19 COETR23 SIWSETA **EELER3** 68.00 LF ACARC1 ULABC7 1.00 EA 30.00 EA 1.00 EA 5.00 CY 3320.00 LF 1.00 EA 5.00 CY 1.00 EA 1.00 EA USR AA <03450 0001 > Precast Concrete Building Note: MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" nigh, 4 use MIL AA <03372 4400 > Placing conc, slab on grade, 6" thick, w/crane & bucket. 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8 USR EL <16119 0990 > Wire, 600 volt, type THWN-THHN, MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole Note: Material price from Concrete Modular Systems ATTN: Frederick Kennedy MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi Χ. USR EL <16513 2015 > Emergency Generator 20 USR EL <16153 0010 > Cable Termination #1/0 727-945-1756 USR EL <16323 0001 > Terminal Box TOTAL Electrical 09.01.15. Equipment Building MIL EL <16119 09.01. Gate S7

UPB ID: UP01EA

NAT01A

CREW ID:

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

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09. Gated Culvert

0.22 0.23 18.10 9.13 0.75 TOTAL COST UNIT COST 51880.06 1323.70 1323.70 1323.70 1323.70 2387.92 217,258 217257.87 1117465 795.97 7.28 0.22 0.23 1056.00 1056.00 1056.00 2,647 1056.00 635.00 1905.00 0.60 1,117,465 51,880 1,663 0.00 0.00 0.00 0.00 0.00 OTHER 0 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0.00 0.00 16.26 LABOR EQUIPMNT MATERIAL 856.00 1,073 1,073 856.00 2,146 856.00 1,073 535.00 671 1605.00 2,012 0.00 4.28 667,175 42,623 120,712 0.00 0.00 0.77 0.00 0.00 0.00 0.00 0.00 0.00 1,720 0.00 0.13 3,435 62,542 1.07 0.22 0.23 7,537 200.00 200.00 200.00 100.00 300.00 0.47 3.00 251 93,111 386,084 200,002 251 9,517 0.01 0.01 0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.01 0.11 2,514 MANHRS 148 0 TUTIO 90.63 84,38 47.50 00.0 00.0 30.35 00.0 0.00 0.00 90.63 00.00 264.00 SF ACMACEFI1 264.00 SF ACMACEFI1 CODFB10N QUANTY UOM CREW ID CODBB54 EELER18 N/A N/A N/A N/A N/A 1.00 EA EA 2.00 EA 1.00 EA 1.00 EA 5.00 CY 1.00 EA g 21000 LF 21000 LF 1.00 EA 1.00 EA 1.00 1.00 MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building MIL AA <03396 0100 > Finishing floors, monolithic, float finish USR MC <15743 0001 > Emergency Generator IO Points MIL AA <03396 0150 > Finishing floors, monolithic, MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher USR MC <15743 0001 > Level Control Gate IO Points USR MC <15743 0001 > Upstream Downstream Level IO Points USR MC <15743 0001 > Telemetry To/From Gated Structure USR MC <15743 0001 > Control Conduit & Cable TOTAL Equipment Building USR MC <15743 0001 > 16 VHF Data Radios Structure USR MC <15743 0001 > Dewatering Gate TOTAL Controls TOTAL Gate S7 09.01.95. Controls AF 09.01. Gate S7

EQUIP ID: C43RES

LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

09. Gated Culvert

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4.28 2.49 16.22 2.90 2.98 TOTAL COST UNIT COST 1326.20 126.26 25453.39 25453.39 1241.93 126.26 36298.74 4.28 2.49 1326.20 126.26 12,626 25,453 1241.93 126.26 11,111 16.22 36,299 2.98 25,453 2.90 OTHER 0.00 0.00 0.00 0.00 10 0.00 0.00 0.00 0.00 0 0.00 0 0.00 LABOR EQUIPMNT MATERIAL 0.83 963.00 126.26 12,626 21,469 21,469 963.00 126.26 0.00 0.81 1.14 23,801 0.36 0.00 0.00 0.00 0.00 0.00 00.0 0.00 36 36 6.21 547 1.65 363.20 00.0 278.93 1.83 2,253 3,948 3,948 00.0 2.08 10.01 881 11,951 0.29 0.09 13.89 126 0.00 10.67 00.0 0.58 0.11 0.10 MANHRS 170 170 597 OUTPUT 20.63 0.29 0.00 0.38 61.88 43.75 0.00 13.75 54.38 9.04 TON SIWRRODM4 9.80 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 100.00 CY ULABC6 165.00 SF ACARC1 ACARC2 ACARC2 100.00 CY N/A 88.00 CY 4000.00 SF 88.00 CY 1230.00 SF 1.00 EA 1.00 EA 1.00 EA MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' high, 4 use, job built plywood MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 MIL AA <03372 5100 > Placing conc, walls, 12" thick, M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Slab On Grade 09.02.03.07.01. Elevated Slab TOTAL Base Slab 09.02.03.01.01. Base Slab TOTAL Walls 09.02.03.07. Elevated Slabs 09.02.03.01. Slab On Grade 09.02.03.03. Walls 09.02.03. Concrete 09.02. Gate S9 09.02. Gate S9

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A

UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.02. Gate S9	QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
] 		1] 		 	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	40.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	40.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	4.00 TO	4.00 TON SIWRRODM4	0.29	13.89	363.20 1,453	0.00	963.00 3,852	0.00	1326.20	1326.20
TOTAL Elevated Slab	1.00 EA		•	189	3,950	152	10,311	0	14,413	14412.63
TOTAL Elevated Slabs	1.00 EA		•	189	3,950	152	10,311	0	14,413	14412.63
09.02.03.08. Beams										
09.02.03.08.01. Needle Beams										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.40 TO	0.40 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	3.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket	3.00 CY	ULABC7	8.13	0.98	16.94	13.44	0.00	0.00	30.38	30.38
CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders	120.00 SF	ACARC2	47.13	0.13	2.40	0.00	1.02	0.00	3.42	3.42
TOTAL Needle Beams	1.00 EA		•	22	451	40	988	0	1,377	1377.24
TOTAL Beams	1.00 EA		•	22	451	40	988	0	1,377	1377.24
TOTAL Concrete	1.00 EA		,	978	20,301	775	56,467	0	77,542	77541.99
09.02.04. Erosion Control System										
MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	683.00 CY	COFGB36C	54.38	0.09	3.39	4.02	25.96	0.00	33.37 22,791	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	121.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93
TOTAL Erosion Control System	1.00 JB			65	2,363	2,765	17,896	0	23,025	23024.58

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Cuivert PROJECT C43RES:

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1.93 52680.32 114.58 26124.99 33.37 41.37 TOTAL COST UNIT COST 35215.61 17464.71 4787,43 831.67 628.93 187.12 20931.21 11353.73 35215.61 35,216 9556.20 22,707 17464.71 26, 125 114.58 26,125 4029.48 52,680 33.37 1.93 41.37 20,931 529.36 157.49 832 700.00 0.00 OTHER 0.00 0.00 0 0 0.00 0.00 0.00 0.00 0.00 700.00 0.00 0.00 18725.00 9416.00 85.60 25.96 2140.00 2,543 MATERIAL 19,517 1.38 24.71 4815.00 11,441 0.00 363.80 28 29.48 28,141 LABOR EQUIPMNT 2913.20 2,913 1421.87 4,335 241 4.02 0.00 0.00 0.00 0.00 0.00 0.15 6.14 2,853 13577.41 6626.84 27.93 6,368 3,39 0.41 10.53 1889.48 2,245 20,204 6,368 4741.20 165.56 13 128.01 4,407 0.00 229.89 112.20 102 0.09 0.02 0.51 36.90 2.50 102 92.59 0.00 00.9 MANHRS 185 202 DUTPUT 0.03 0.07 8.93 54.38 9.75 0.03 0.01 0.00 0.55 0.40 150.00 1.00 EA EELEELEC1 EELEELEC1 **EELEELEC1** 169.00 CY COFGB36C QUANTY UOM CREW ID 1.00 EA SIWSE21 CODEB3A 1.00 EA SIWSE21 0.07 MLF EELER18 228.00 SF SIWSE4 676.00 SY ULABA2 1.00 EA 338.00 CY 2.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 LS MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large USR EL <16119 0002 > Actuator Starter & Remote Cntris RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropyiene MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY USR EL <16711 0011 > Meter Connection by Utility USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 USR AA <05150 0001 > Slide Gate 6' x 6' SST USR AA <05150 0001 > Weir Gate 6' x 3' SST USR EL <16119 0001 > RTU\MOSCAD TOTAL Stop Logs USR AA <05548 0611 > Stop Log TOTAL Rip Rap TOTAL Gates 09.02.11. Electrical 09.02.06. Stop Logs 09.02.07. Rip Rap 09.02.05. Gates 09.02. Gate S9

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NATO1A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09, Gated Culvert

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USR EL CIGGIO 2010 NIPD fett, filosolight, 23000 Night 13.00 En ELERIS 0.65 186.79 0.00 513.89 0.00 0.75.89 647.	09.02. Gate S9		QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
EL -166212 2220 PRINCE									 	; ; ; ; ;	• • • • • • • • • • • • • • • • • • •	
EL CIGETI 0100 > Compact Pluorescent EL CIGETI 0100 > Light pole foundation EL CIGETI 0101 > Light pole foundation SIGN SHAPP STATE STA		EI	13.00 EA	EELER19	0.69	3.63	186.79	0.00	391.89 6,053	0.00	578.68 8,938	687.53
EL <16617 0001 > Light tendention of case one 6 warm, 30 '			7.00 EA	EELER19	1.00	2.50	128.51 1,069	0.00	181.90	0.00	310.41	368.80
1.00 EA EELERIS 0.82 7.33 365.89 62.38 903.35 0.00 1331.62 15 15 16 10.00 EA EELERIS 0.82 7.33 44.347 741 10,733 0.00 15,821 15 15 11.00 EA EELERIS 0.01 2.01 99.89 17.03 460.10 0.00 577.02 686 6 133.00 EA EELERISCI 0.21 4.85 248.57 0.00 514.97 0.00 765.71 9 13.00 EA EELERISCI 0.21 2.00 102.41 0.00 133.75 0.00 236.16 2 3,648 2 11.00 EA EELERISCI 0.12 8.47 433.94 0.00 332.77 0.00 766.71 9 10.00 EA EELERISCI 0.12 8.47 433.94 0.00 332.77 0.00 766.71 9 10.00 EA EELERISCI 0.12 8.47 433.94 0.00 332.77 0.00 225.29 10 2.34 2 11.00 EA EELERISCI 0.42 2.40 122.79 0.00 128.40 0.00 224.82 2 11.00 EA EELERIS 1.33 68.30 0.00 128.40 0.00 224.82 2 11.00 EA ULABC6 0.75 8.00 107.95 9.87 107.00 0.00 224.82 2 11.30 0.01 17.81 7.31 0.00 0.00 0.00 15.77 0.00 15.77 0.00 15.77 0.00 15.77 0.00 15.77 0.00 15.77 0.00 15.77 0.00 0.00 0.00 0.00 0.00 0.00 0.00		EL	10.00 EA	EELER15	09.0	10.00	499.44 5,934	85.16 1,012	214.00	0.00	798.59	948.81
1.00 EA EELERIS 3.00 2.00 99.89 17.03 460.10 0.00 577.02 686 68 10 0.00 EA EELERELECT 0.21 4.85 248.57 0.00 514.97 0.00 763.54 907 91.00 EA EELEELECT 0.50 2.00 102.41 0.00 133.75 0.00 236.16 3.648 2 1.00 EA EELEELECT 0.12 8.47 433.94 0.00 332.77 0.00 766.71 911 911.00 EA EELEELECT 0.12 8.47 433.94 0.00 325.79 0.00 925.29 10 1.00 EA EELEELECT 0.42 2.40 122.79 0.00 802.50 0.00 925.29 10 1.00 EA EELEELECT 0.42 2.40 122.79 0.00 128.40 0.00 196.70 1.00 EA ULABC6 0.75 8.00 107.95 9.87 107.00 0.00 224.82 11.00 EA ULABC6 0.75 8 128 128 7,301 0.00 89.00 15,179 0.00 89.00 15,179 0.00 89.00 15,179 0.00 89.00 105.93 0.00 89.00 15,179 0.00 89.00 105.93 0.00 89.00 15,179 0.00 89.00 105.93 0.00 89.00 15,179 0.00 89.00 105.93 0.00 15,179 0.00 105.93 0.00 105.93 0.00 15,179 0.00 105.93 0.00 105.93 0.00 15,179 0.00 105.93 0.00 105.93 0.00 15,179 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.92 0.00 105.93 0.00 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.00 105.93 0.0		one 6' arm, steel, rnd,			0.82	7.33	365.89	62.38	903.35 10,733	0.00	1331.62	1582.10
13.00 EA EELEELECI 0.21 5 248.57 0.00 514.97 0.00 763.54 13.00 EA EELEELECI 0.50 26 1,582 0.00 236.16 3,648 2 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 766.71 0.00 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 925.29 1.00 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 925.29 1.00 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 925.29 1.00 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 224.82 1.00 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 128.40 0.00 224.82 2.00 1.00 EA EELEELECI 0.75 8 1.28 12 107.00 0.00 224.82 2.00 1.00 EA ULABC6 0.75 8 1.28 7,301 0.00 1.00 0.00 15,179 1.30.00 LF COETR23 33.25 1.54 7,878 7,301 0.00 18.93 0.00 15,179 3.24 MLF EELEELECI 0.13 2.6 1,574 0.00 105.93 0.00 515.57 0.00 1.982. 6		USR EL <16617 0002 > Lignting, poles, wood, 20' NOIE: Use for Meter Pole	1.00 EA		3.00	2.00	99.89	17.03	460.10	0.00	577.02 686	685.56
13.00 EA EELEELECI 0.50 2.00 102.41 0.00 133.75 0.00 236.16 2.066 0 3,648 2			1.00		0.21	4.85	248.57	00.0	514.97	0.00	763.54	907.16
1.00 EA EELEELECI 0.12 8.47 433.94 0.00 332.77 0.00 766.71 9 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 925.29 10 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 156.70 1,099 10 1.00 EA EELEELECI 0.42 2.40 107.95 9.87 107.00 0.00 224.82 1.00 EA ULABC6 0.75 8 107.95 9.87 107.00 0.00 224.82 1.00 EA ULABC6 0.75 8 128 128 12 127 0.00 8.93 1.00 EA EELEELECI 0.14 7.25 371.05 0.00 69.02 0.00 440.07 5 9.00 105.93 0.00 515.77 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57 0.11 2.00 105.93 0.00 515.57		USR EL <16181 0105 > Ground Rod $3/4$ " x 20' Long amp, enclosed 600 volt, 3 pole			0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
EL <16323 0001 > Nema 4X StainLess steel encl NOTE: Use for Lighting Controller Let <16333 1401 > Photo-cell Loo EA EELERIS 1.88		MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main 10gs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for Panel L	1.00 EA	EELEELEC1	0.12	8.47	433.94	00.0	332.77 395	0.00	766.71 911	910.93
EL <16333 1401 > Photo-cell 1.00 EA EELER19 EL <03000 0001 > Concrete foundation NOTE: Use for lighting Lactorial		EL <16323 0001 > Nema 4X Stainless steel NOTE: Use for Lighting Controller	1.00 EA	BELEELEC1	0.42	2.40	122.79	0.00	802.50 953	0.00	925.29	1099.34
EL <02230 0001 > Concrete foundation NOTE: Use for lighting Looper, 24" wide, 40 HP, chain EL <16119 1250 > Wire, 600 volt, type FHWN-THHN, copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, stranded, #10 Copper, Stranded,			1.00 EA	EELER19	1.88	1.33	68.30	0.00	128.40	0.00	196.70	233.70
EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain 1430.00 LF COETR23 33.25 154 7,878 7,301 0.00 0.00 8.93 trencher trencher trencher copper, stranded, #12 0.22 MLF EELEELECI 0.14 2 95 0.00 69.02 0.00 440.07 5 515.57 copper, stranded, #10 3.24 MLF EELEELECI 0.13 26 1,574 0.00 105.93 0.00 515.57 0 1,982 6		USR EL <03000 0001 > Concrete foundation NOTE: Use for 11gnting controller	1.00 EA		0.75	8.00	107.95 128	9.87	107.00	0.00	224.82 267	267.11
EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12 0.14 2 95 0.00 69.02 0.00 440.07		EL <02230 4020 > Excavate utility trenc? deep, 24" wide, 40 HP, trencher	1430.00 LF	COETR23	33.25	0.11	4.64	4.30	0.00	0.00	8.93 15,179	10.61
EL <16119 1250 > Wire, 600 volt, type THWN-THHN, 3.24 MLF EELEELECT 0.13 26 1,574 0 407 0 1,982 0,982 copper, stranded, #10		EL	0.22 ML		0.14	7.25	371.05 95	0.00	69.02	0.00	440.07	522.84
		E1	3.24 ML	F EELEELEC1	0.13	8.00	409.64	0.00	105.93	0.00	515.57	612.55

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.02. Gate S9		QUANTY UOM CREW ID	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	NIT COST
	MIL EL <16119 1350 > Wire, 600 volt, type IHWN-THHN,				12.35	637.16	0	293 79		1 0	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Ö	1.55 MLF	EELEELEC1	0.08	19	1,164		541	0	1,705	1100.03
	MIL EL <16119 1600 > Wire, 600 volt, type IHWN-THHN, copper, stranded, 1/0	0.08 MLF	EELEELEC1	0.04	24.39	1248.90 111	0.00	1049.67	0.00	2298.57	2730.93
	MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex	1.00 EA	EELEELEC1	3.38	0.30	15.17	0.00	32.53	0.00	47.70	56.67
	USR EL <16153 0014 > Cable Termination #12	50.00 EA	BELER19	31.25	0.08	4.11	0.00	0.27	0.00	4.38	5.20
	USR EL <16153 0013 > Cable Termination #10	90.00 EA	EELER19	27.78	0.09	4.63	0.00	0.54	0.00	5.16	6.13
	USR EL <16153 0012 > Cable Termination #6	8.00 EA	EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0010 > Cable Termination #1/0	12.00 EA	EELER19	16.67	0.15	7.71	0.00	3.21	0.00	10.92	12.97
	MIL EL <16711 0500 > Elec & tel sitewk, 2'x2'x2'-6" D, hand holes, precast conc, W/conc cov	1.00 EA	EELER3	0.31	7.99	415.55	65.02	321.00 381	0.00	801.57 952	952.34
	MIL EL <16333 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2	2.00 EA	EBLEBLEC1	0.41	2.42	123.98 295	0.00	269.11 639	0.00	393,09 934	467.03
	MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R	1.00 EA	EBLEBLEC1	0.31	3.20	163.86	0.00	354.06 421	0.00	517.92 615	615.34
	USR EL <16232 2483 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex MP	1.00 EA	EELEELEC1	2.89	0.35	17.70	0.00	53.50	0.00	71.20	84.59
	USR EL <16153 0011 > Cable Termination #4	6.00 EA	EELER19	20.83	0.12	6.17	0.00	1.12	0.00	7.29	8.66
	USR EL <16153 0012 > Cable Termination #6	14.00 EA	EELER19	25.00	0.10	5.14	0.00	0.91	0.00	6.05	7.19
	USR EL <16153 0013 > Cable Termination #8	22.00 EA	EELER19	27.78	0.09	4.63	0.00	0.80	0.00	5.43	6.45
	USR EL <16153 0014 > Cable Termination #12	478.00 EA	EELER19	31.25	0.08	4.11 2,335	0.00	0.27	0.00	4.38	5.20
	USR EL <16153 0016 > Cable Termination #16	54.00 EA	EELER19	31.25	0.08	4.11	0.00	0.16	0.00	4.27	5.08
LABOR ID: C43RES	EQUIP ID: C43RES	Currenc	Currency in DOLLARS					CREW I	CREW ID: NAT01A	UPB ID: UP01EA	PO1EA

09.02. Gate S9

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

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7.83 5.60 10.23 2.55 4.13 5.60 4.13 2.55 10.23 2.14 2.55 7.83 61.38 125,73 612.55 TOTAL COST UNIT COST 111.46 4.71 8.61 6.59 4.71 6.59 2.148,146 3.47 3.47 $\frac{1.80}{150}$ 2.14 93.82 515.57 51.66 8.61 2.14 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.57 2.18 3.49 0.57 3.49 0.39 39.80 105.93 702 10.70 1.20 2.18 0.57 EQUIPMNT MATERIAL 1.43 1.20 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 00.0 0 0.00 0 LABOR 40.96 4.40 1.58 4.40 409.64 2,713 2.28 3.28 1,433 1.58 1.41 1.58 314.14 26 54.01 122 0.10 0.04 0.04 0.03 0.10 0.03 0.03 8.00 0.80 0.03 90.0 0.09 0 6.14 1.05 MANHRS 102 66 OUTPUT 15,63 15.63 32.50 10.00 0.16 1.24 0.13 1.25 11.63 10.00 32.50 22.50 22.50 11,63 36.25 32.50 EELEELEC1 EELEELEC1 **EELEELEC1** 0.07 MLF EELEELEC1 5.57 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELECT EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER20 MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv 254.00 LF 530.00 LF 1490.00 LF 2.00 EA couplings only, steel rigid galv 1191.00 LF 90.00 LF 3200.00 LF 1260.00 LF 75.00 LF 900.00 LF 20.00 LF 70.00 LF 12.00 EA 5.00 LF MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16712 1050 > Conquit, direct burnal only, PVC sched 40, 2" dia, w/coupling MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling MIL EL <16712 1030 > Conquit, direct burial only, PVC sched 40, 1" dia, w/coupling MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl CIV EL <16153 0320 > Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl RSM EL <16119 0920 > Wire, 600 volt, type IHWN-THHN, copper, solid, #14 MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl MIL EL <16326 0100 > Panelboard&1d ctr ckt brkr,15 50A,bolt-on,10k AIC,1 P,120V MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling MIL EL <16712 1050 > Conduit, direct burial, PVC sched 40, 2" dia, w/coupling

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

ID: NAT01A

CREW

09.02. Gate S9

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Calivert PROJECT C43RES;

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4.13 84.99 1258.36 2730.93 625.11 180.11 373.99 TOTAL COST UNIT COST 603.94 1100.03 522.84 102.04 168.87 22292.35 102.04 214.54 18763.03 2298.57 1,598 925.88 85.88 180.57 71.54 1059.14 508.33 3,459 151.60 142,13 85.88 526.15 3.47 314.78 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 428.54 293.18 1049,67 293.72 55 69.02 360.59 19.57 69.67 69.98 44.60 7490.00 17,798 160.50 19.57 MATERIAL EQUIPMNT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 LABOR 51.21 630.60 215.15 256 1248.90 868 632.16 97.53 116 11273.03 26,787 66.31 66.31 1,654 81.93 2.28 2,916 165.56 183 110.59 1.00 12.32 4.20 24.39 12.35 6.00 1.29 1.60 2.16 1.90 219.30 0.04 3.00 1.29 48 9 MANHRS OUTPUT 1.00 0.08 0.24 0.04 0.08 0.14 0.55 1.94 0.63 0.46 0.53 0.01 0.83 1.94 22.50 EELEELEC1 1.00 EA EELEELEC1 1.00 EA EELEELEC1 0.59 MLF EELEELEC1 0.16 MLF EELEELEC1 6.62 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 10 0.02 MLF EELER18 EELER19 EELER19 EELER19 QUANTY UOM CREW EA 21.00 EA EA 1.00 EA ΕA EA 2.00 EA 1.00 EA 555.00 LF 2.00 1.00 3.00 1.00 MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, EL <16325 4340 > Panelboard assem, 20-20A brkr, main 1ugs, 100A, 1ph, 3 wire, 120/240V MIL EL <16337 1700 > Safety switch, heavy duty, 600 $$\rm V,~3~pole~non~fused,~100~A$ 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D MIL EL <16213 0330 > Pull box, sneet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6" MIL EL <16181 6310 > Grounding, gnd conductor bond, $470-300~{\rm MCM},~{\rm splice~or~Lug},$ MIL EL <16326 0310 > Panelboard&ld ctr ckt brkr,70 100A,bolt-on,10k AIC,1 P,120V CIV EL <16213 2744 > Pull box, ninged, steel, NEMA 12"W x 12"H x 6"D NOTE: Use for distribution MIL EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4 copper, stranded, 1/0 USR EL <16869 0090 > Lighting Contactor USR EL <16820 3580 > Stilling well MIL EL <16213 0380 > EL <16181 MIL

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

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U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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09. Gated Culvert

615.03 6.13 5.14 54.64 55.75 TOTAL COST UNIT COST 6295.07 1544.06 675.49 233.70 831.67 187.12 907.16 448.57 164.83 189.42 5298.43 6,295 517.66 2,460 1299.60 3,088 568.55 196.70 234 700.00 157.49 377.55 138.73 159.43 5.16 4.33 45.99 1,814 46.92 763.54 OTHER 0.00 0.00 0.00 0.00 0.00 700.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3210.00 354.06 1,683 EQUIPMNT MATERIAL 871.23 2,070 363.73 128.40 153 0.00 29.48 35 514.97 107.00 53.50 30.82 9.68 0.54 191 0.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0 00.0 0 LABOR 2088.43 163.59 204.82 428.38 1,018 68.30 270.55 4.11 00.0 128.01 152 248.57 591 111.98 798 105.93 503 4.63 15.17 37.24 75.69 3.19 4.00 1.33 8.33 0.00 1.85 5.26 4.23 4.00 0.09 0.73 OUTPUT MANHRS 2.50 S 0.08 0.30 0.04 0.30 0.25 1.88 0.00 0.40 0.48 0.59 0.63 0.31 0.21 31.25 3.38 1.38 27.78 4.00 EA EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELECI EELEELEC1 QUANTY UOM CREW ID EELER18 EELER19 1.00 EA EELER19 EELER19 MSHMQ20 EELER19 EELER19 MSHMQ20 1.00 EA 2.00 EA 1.00 EA EA 1.00 EA 6.00 EA 4.00 EA ΕÀ 2.00 EA 1.00 EA 128.00 EA EA 1.00 LS 2.00 4.00 12.00 MIL EL <16313 9650 > Motor starter & cont, NEMA 1, size 1, comb, rev, w/disc switch 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pote NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPSI 5510 > Safety switch, nvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R CIV EL <16213 1710 > Cabinet, hinged, $36"W \times 30"H \times 12"D$, sheet met, db1 dr, NEMA EL <16232 2480 > Wiring device, receptacie, gnd fault intrpt, 15 amp, duplex Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, NOTE: Use for RTU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <13810 0001 > Limit and Rotary Switches USR EL <16153 0016 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #14 USR EL <13810 0002 > Push Button Stations USR EL <13810 5471 > Surge Suppressor conduit, etc. USR EL <16333 1401 > Photo-cell USR EL <16000 0001 > MIL EL <16338 MIL EL <16338 ΑF 09.02. Gate S9

UPB ID: UP01EA

NAT01A

CREW ID: 1

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

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10.61 910.17 848.03 157,49 1454.43 825.12 TOTAL COST UNIT COST 736.09 280.58 1656.64 1620.70 708.21 708.21 524.68 270.65 UPB ID: UP01EA 1224.16 44 619.55 1,472 766.07 713.77 236.16 1394.36 1364.11 1,621 132.55 596.08 596.08 1,416 441.62 2,099 227.80 2,165 8.93 35,240 694.48 660 CREW ID: NAT01A OTHER 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1134.20 1,081 151.62 0.00 448.33 182.44 1,182 371.08 246.10 1,170 133.75 535.00 636 65.16 1,081 322.07 EQUIPMNT MATERIAL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 17.77 57.54 68.12 00.0 4.30 0 LABOR 337.46 104.23 248 399.55 1,899 829.11 985 67.39 141.33 141.33 119.55 76.18 4.64 775.83 512.05 487 102.41 852 258 260.16 6.76 8.00 2.00 16.13 16 1.43 2.76 2.76 2.33 1.62 15.15 10.00 2.09 9.43 0.11 MANHRS OUTPUT 2.88 0.89 0.75 0.50 0.35 0.16 3.25 0.72 0.72 1.08 2.88 0.07 0.10 33.25 Currency in DOLLARS EELEELEC2 EELEELEC2 0.03 MLF EELEELEC1 0.80 MLF EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER15 EELER15 EELER15 EELER18 EELER19 EELER22 EELER19 COETR23 EELER22 0.84 MLF 2.00 EA 2.00 EA 4.00 EA 1.00 EA 4.00 EA 2.00 EA 2.00 EA 8.00 EA 3320.00 LF 7.00 EA 4.00 EA MIL EL <16622 3060 > Ltg, HID fxtr,250W security, ext wall NOTE: Use for type D (250w Metal Halide EH9) MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8 MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8) MIL EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain NOTE: Use for fixture type B NOTE: Use for fixture type C USR EL <16611 0001 > Ltg fxtr, 175w Metal Hallde (EH-1) USR EL <16622 3010 > Ltg fxtr, 175w Metal Halide (EH1) MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0 NOTE: Use for type E (E12) USR EL <16617 3300 > Light Pole Foundation USR EL <16865 0125 > Level Gage tapered EQUIP ID: C43RES MIL EL <02230 MIL EL <16119 LABOR ID: C43RES 09.02. Gate S9

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
99. Gated Culvert PROJECT C43RES:

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18.10 12.97 1.48 17.95 0.17 0.22 0.23 300,783 300783.45 50586.44 400.49 25083.87 4066.14 1099.34 1090.80 126.26 TOTAL COST UNIT COST 50586.44 21112.59 25,084 3422.39 0.17 337.08 10.92 925.29 1090.80 218 126.26 631 17.95 0.22 0.23 18.10 OTHER 0.00 0.00 0.00 0.00 1,663 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 00.0 42.80 18725.00 22,247 41730.00 0.00 0.00 16.26 81 3107.28 802.50 0.51 727.60 0.00 EQUIPMNT MATERIAL 126.26 0.00 125,345 631 1676.22 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.77 0.00 323.02 0.00 7.94 0 27,000 7180.22 7,180 1.07 LABOR 294.28 2064.57 0.96 363.20 10.01 0.23 315.11 122.79 0.00 0.17 0.22 7.71 146 46 57 146,775 5.75 39.68 130.08 0.03 0.15 6.15 2.40 0.05 13.89 0.00 0.58 0.01 0.01 0.01 MANHRS 2,562 90.0 TUTTUO 0.17 16.67 90.0 0.16 0.42 75.00 0.29 0.00 13.75 90.63 47.50 112.50 84.38 EELEELEC1 0.20 TON SIWRRODM4 ACMACEF11 ACMACEF11 EELEELECI ACMACEF I 1 0.16 MLF EELEELEC1 CODFB10N QUANTY UOM CREW ID EELER19 1.00 EA SIWSE7A EELER3 68.00 LF ACARC1 ULABC7 N/A 30.00 EA 1.00 EA 1.00 EA 5.00 CY 5.00 CY 264.00 SF 264.00 SF 264.00 SF 5.00 CY 1.00 EA 1.00 EA MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use USR AA <03450 0001 > Precast Concrete Building Note: Note: Material price from Concrete Modular Systems 4400 > Placing conc, slab on grade, 6" thick, w/crane & bucket USR EL <16119 0990 > Wire, 600 volt, type THWN-THHN, MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 ATIN: Frederick Kennedy MIL AA <03396 0010 > Finishing floors, monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, MIL AA <03396 0150 > Finishing floors, monolithic, M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi ΚÑ USR EL <16513 2015 > Emergency Generator 20 USR EL <16153 0010 > Cable Termination #1/0 727-945-1756 float finish USR EL <16323 0001 > Terminal Box TOTAL Electrical 09.02.15. Equipment Building MIL AA <03372 09.02. Gate S9

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

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09.02. Gate S9	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
under precast building									
TOTAL Equipment Building	1.00 JB		148	7,537	1,720	42,623	0	51,880	51880.06
09.02.95. Controls									
USR MC <15743 0001 > Dewatering Gate IO Points	1.00 EA N/A	0.00	0.00	200.00	0.00	856.00 1,073	0.00	1056.00	1323.70
USR MC <15743 0001 > Level Control Gate IO Points	1.00 EA N/A	0.00	00.0	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Upstream Downstream Level IO Points	2.00 EA N/A	00.00	0.00	200.00	00.0	856.00 2,146	0.00	1056.00	1323.70
USR MC <15743 0001 > Emergency Generator IO Points	1.00 EA N/A	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
USR MC <15743 0001 > Telemetry To/From Gated Structure	1.00 EA N/A	00.00	0.00	100.00	0.00	535.00 671	0.00	635.00	795.97
USR MC <15743 0001 > 16 VHF Data Radios Structure	1.00 EA N/A	00.00	0.00	300.00	0.00	1605.00	0.00	1905.00	2387.92
AF MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher	14500 LF CODBB54	90.63	0.01	0.47	0.13	0.00	0.00	0.60	0.75
USR MC <15743 0001 > Control Conduit & Cable	14500 LF EELER18	30.35	0.11	3.00	0.00	4.28	0.00	7.28	9.13
TOTAL Controls	1.00 EA		1,736	64,834	2,372	85,840	0	153,045	153,045 153045.46
TOTAL Gate S9	1.00 EA		6,136	272,788	42,061	389,500	1,663	706,012	706,012 706012.05

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

09. Gated Culvert

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4.28 2.49 2.98 OTHER TOTAL COST UNIT COST 126.26 20451.26 20451.26 16.22 2.90 36268.56 1326.20 1241.93 126.26 343 2.49 1326.20 1241.93 126.26 11,616 126.26 10,101 20,451 20,451 16.22 2.90 36,269 2.98 0.00 0.00 0.00 0.00 0 0.00 0.00 0.00 0.00 0 0.00 0 0.00 0.83 963.00 126.26 10,101 17,261 963.00 126.26 11,616 0.00 LABOR EQUIPMNT MATERIAL 0.81 1.14 17,261 24,414 0.36 0.00 0.00 0.00 0.00 0.00 0.00 0.00 59 6.21 29 571 363.20 2,666 278.93 1.83 1.65 00.0 2.08 00.0 11,283 3,162 10.01 921 0.29 0.09 13.89 0.00 10.67 0.10 0.00 0.58 397 OUTPUT MANHRS 135 135 560 54 20.63 43,75 0.29 00.0 13.75 61.88 0.38 0.00 54.38 7.34 TON SIWRRODM4 10.25 TON SIWRRODM4 QUANTY UOM CREW ID CLABC20 80.00 CY ULABC6 110.00 SF ACARCI ACARC2 620.00 SF ACARC2 80.00 CY N/A 92.00 CY 92.00 CY 3600.00 SF 1.00 EA 1.00 EA 1.00 EA MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12^n , 4 use MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use MIL AA <03372 5100 > Placing conc, walls, 12" thick, M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Slab On Grade 09.03.03.07.01. Elevated Slab TOTAL Base Slab plywood 09.03.03.01.01. Base Slab pedund TOTAL Walls 09.03.03.07. Elevated Slabs 09.03.03.01. Slab On Grade 09.03.03.03. Walls 09.03.03. Concrete 09.03. Gate S14 09.03. Gate S14

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.03. Gate \$14	QUANTY UOM	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	20.00 CY	CLABC20	22.50	0.36	6.12	3.80	0.00	0.00	9.91 198	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	20.00 CY	N/A	00.00	00.0	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	2.00 TON	2.00 TON SIWRRODM4	0.29	13.89	363.20 726	0.00	963.00	0.00	1326.20	1326.20
TOTAL Elevated Slab	1.00 EA		•	95	1,984	9.2	5,161	0	7,221	7221.20
TOTAL Elevated Slabs	1.00 EA		'	95	1,984	76	5,161	0	7,221	7221.20
09.03.03.08. Beams										
09.03.03.03.01. Needle Beams										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.24 TON	TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	2.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket	2.00 CY	ULABC7	8.13	0.98	16.94	13.44	0.00	0.00	30.38	30.38
CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders	110.00 SF	ACARC2	47.13	0.13	2.40	0.00	1.02	0.00	3.42	3.42
TOTAL Needle Beams	1.00 EA		'	19	365	27	595	0	886	987.68
TOTAL Beams	1.00 EA		,	19	365	72	595	0	886	987.68
TOTAL Concrete	1.00 EA		•	608	16,794	703	47,432	0	64,929	64928.69
09.03.04. Erosion Control System										
MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	315.00 CY	COFGB36C	54.38	0.09	3.39	4.02	25.96	0.00	33.37 10,511	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	59.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93
TOTAL Erosion Control System	at. 00.1		1	1 00	100	376 1	1 0 0 0			

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Cuivert

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Course, Crushed stone, 3/4" 1.00 EA SIMSEZI 0.02 450.77 27154.81 5526.40 28890.00 0.00 61,971 618	09.03. Gate S14	QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
	09.03.05. Gates)))))	 	 	; ; ; ; ; ;	 	
100 Step Log 100 EA 10	.x	1.00 EA		0.02	459.77	27154.81 27,155	5826.40 5,826	28890.00 28,890	0.00	61871.21 61,871	61871.21
Stop Log Stop Log	TOTAL Gates	1.00 EA		•	460	27,155	5,826	28,890	0	61,871	61871.2
	09.03.06. Stop Logs										
1000 Pase course, crushed stone, 3/4" 100 EA 110	USR AA <05548 0611 > Stop Log			8.93	0.45	27.93	1.06	85.60	0.00	114.58	114.5
1510 Base course, crushed stone, 3/4" 1520 1510 1520	TOTAL Stop Logs	1.00 EA			125	7,820	295	23,968	0	32,083	32083.32
1510 Passe course, crushed stone, 3/4" max size, compacted, 3"b, large 197.00 CY COFCE36C 54.38 18 667 792 55,114 0.00 6,574 3 4.02 4.02 55,114 0.00 6,574 3 4.02 4.02 5,114 0.00 1.93 4.02 5,114 0.00 1.93 4.02 5,114 0.00 1.93 4.02 5,114 0.00 1.93 4.02 5,114 0.00 1.93 4.02 5,114 0.00 1.93 4.03 4.	09.03.07. Rip Rap										
1100 Rip-rap, random pieces, dumped 1.00 EA 1.00 EB 1.00 EA 1.00 EB 1.00	ω _	197.00 CY		54.38	0.09	3.39	4.02	25.96	0.00	33.37 6,574	33.37
1000 Rip-rap, random pieces, dumped 1000 10	CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene			150.00	0.02	0.41	0.15	1.38	0.00	1,93	1.93
TOTAL Rip Rap TOTAL	MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	394.00 CY		9.75	0.51	10.53	6.14 2,417	24.71	0.00	41.37	41.37
0001 > RTU\MOSCAD 1.00 EA ELLELLECI 0.03 37 2,245 0.00 2,543 0.47787 4 0002 > Actuator Starter & Remote Cntrls 1.00 EA ELLELLECI 0.01 90.91 4655.00 0.00 4815.00 0.00 9470.00 1.00 EA ELLELLECI 0.01 91 5,531 0.00 0.00 0.00 11,251 11 0011 > Meter Connection by Utility 1.00 LS 5999 > Grounding, laid in trench, copper, bare stranded, #6 1.00 EA ELLELLERIB 0.55 0.00 165.56 0.00 363.80 0.00 529.36 0100 > Meter centers & sockets, 4 term, 1.00 EA ELLELLECI 0.40 3 152 0 135 0 187.49 5230 > HID fxtr, floodlight, 250W high press sodium lamp, encl, neavy 13.00 EA ELLERIB 0.69 47 2,885 0 6,053 0 6,938 0100 Meter centers & sockets, 1 many out of the centers of	TOTAL Rip Rap	1.00 EA		•	236	5, 138	3,326	15,937	0	24,401	24401.03
EL <16119 0001 > RIU\MOSCAD 1.00 EA EELEELEC1 6.03 37 2,245 6.00 2,543 6.00 4815.00 7.511 0011 > Meter Connection by Utility EL <16711 0011 > Meter Connection by Utility EL <16712 0100 > Meter Connection by Utility EL <16713 0100 > Meter Connection by Utility EL <16713 0100 > Meter Connection by Utility EL <16713 0100 > Meter Connection by Utility EL <16713 0100 > Meter Connection by Utility EL <16713 0110 > Meter Connection by Utility EL <16713 0110 > Meter Connection by Utility EL <16713 0110 > Meter Connection by Utility EL <16713 0110 > Meter Connection by Utility EL <16713 0110 > Meter Connection by Utility EL <16713 0110 > Meter Connection by Utility EL <16714 0110 > Meter Connection by Utility EL <16715 0110 > Meter Connection by Utility EL <16715 0110 > Meter Connection by Utility EL <16715 0110 > Meter Connection by Utility EL <16715 0110 > Meter Connection by Utility EL <16716 0110 > Meter Connection by Utility EL <16717 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110 > Meter Connection by Utility EL <16718 0110	09.03.11. Electrical										
EL <16119 0002 > Actuator Starter & Remote Cntrls 1.00 EA EELEELECI 1.01 EA C16711 0011 > Meter Connection by Utility EL <16711 0011 > Meter Connection by Utility EL <16711 0011 > Meter Connection by Utility EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 EL <16182 4 0100 > Meter centers & sockets, 4 term, 100 EA EELEELECI EL <1652 5230 > HID fxtr, floodlight, 250W nigh EL <16622 5230 > HID fxtr, floodlight, 250W nigh EL <16622 5230 > HID fxtr, floodlight, 250W nigh EL <16622 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16652 5230 > HID fxtr, floodlight, 250W nigh EL <16653 660 53 0.00 0.00 0.00 0.00 0.00 0.00 0.00	USR EL <16119 0001 > RTU\MOSCAD	1.00 EA		0.03	36.90	1889.48	0.00	2140.00	0.00	4029.48	4787.4
EL <16711 0011 > Meter Connection by Utility 1.00 LS 1.	ω π			0.01	90.91	4655.00 5,531	0.00	4815.00	0.00	9470.00	11251.31
EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 0.07 MLF EELER18 0.55 0 128.01 0.00 363.80 0.00 529.36 EL <16324 0100 > Meter centers & socket, 1 position 1.00 EA EELEELEC1 0.40 3 186.79 0.00 391.89 0.00 578.68 EL <16622 5230 > HID fxtr, floodlight, 250W nigh encl, neavy allowed and the second of th				00.00	0.00	0.00	00.00	0.00	700.00	700.00	831.6
EL <16324 0100 > Meter centers & sockets, 4 term, 1.00 EA EELEELECI 0.40 3 152 0 29.48 0.00 157.49 187 198 100 A, socket, 1 position 1.00 EA EELEELECI 0.40 3 152 0 35 0 187 187 187 187 187 187 187 187 187 187	USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6	0.07 ML		0.55	6.00	165.56	0.00	363.80	0.00	529.36	628.93
EL <16622 5230 > HID fxtr, floodlight, 250W nigh 3.00 EA EELER19 0.69 47 2,885 0 6,053 0 8,938 0 0,00 8,938	RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position	1.00 EA		0.40	2.50	128.01 152	0.00	29.48	0.00	157.49	187.12
		13.00 EA		0.69	3.63	186.79 2,885	0.00	391.89 6,053	0.00	578.68 8,938	

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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USR EL (1661) 0001 Lighte pack formation 1,00 EA ELERIS 1,00 1,00 1,113 0.00 1,1	09.03. Gate S14		QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
EL (16617 1000 Although Concerne foundation) EL (16617 1000 Although Conc		USR EL <16611 4100 > Compact Fluorescent	7.00 EA		1.00	2.50	128.51	0.00	181.90	0.00	310.41	368.80
EL <16617 1000 > Lighting, poles, one 6' arm, 30' and 20 a		USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, otagonal, conc		EELER1	09.0	10.00	499.44 5,934	85.16	214.00	0.00	798.59	948.81
EL <16519 0002 > Lidgating, poles, wood, 20** Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Meter Pole Worts: Use for Lighting EL <16333 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1401 > Photo-cell EL <16331 1		e 6' arm, eel, rnd,	10.00		0.82	7.33	365.89	62.38	903.35	0.00	1331.62 15,821	1582.10
EL <16338 4400 > Safety switch, nvy dty, 100 amp, with the state to the state of th		USR EL <16617 0002 > Lignting, poles, wood, 20' NOTE: Use for Meter Pole	1.00 EA		3.00	2.00	99.89 119	17.03	460.10	0.00	577.02	685.56
EL <16181 0105 > Ground Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, personal Rod 3/4" x 20" Long man, Lugs, 100A, lph, 3 wire, 100 EA ELEELECT			1.00		0.21	4.85	248.57	0.00	514.97	0.00	763.54	907.16
EL <16325 4320 Panelboard assem, 12-20A birk, 100 EA EELEELECI 0.12 8 516 0.00 335.77 0.00 766.71 100 EA EELEELECI 0.12 8 516 0.00 335.77 0.00 766.71 100 EA EELEELECI 0.12 8 516 0.00 335.77 0.00 766.71 100 EA EELEELECI 0.12 79 0.00 802.50 0.00 1/0.09 1/0		<pre><16181 0105 > Ground Rod 3/4" x ; amp, enclosed 600 </pre>			0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
EL <16323 0001 > Noma 4X Stainless steel encl			1.00 EA		0.12	8.47	433.94 516	0.00	332.77 395	0.00	766.71 911	910.93
EL <16333 1401 > Photo-cell EL <16333 1401 > Photo-cell EL <163000 0001 > Concrete foundation NOTE: Use for lightly trench, 30" Controller Contro		USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting Controller	1.00 EA		0.42	2.40	122.79 146	0.00	802,50	0.00	925.29	1099.34
EL <03000 0001 > Concrete foundation NOTE: Use for lighting Location and the controller EL <02230 4020 > Excavate utility trench, 30" EL <15119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 EL <15119 1350 > Wire, 600 volt, type THWN-THHN, copper, strand		USR EL <16333 1401 > Photo-cell	1.00 EA		1.88	1.33	68.30	0.00	128.40	0.00	196,70	233.70
EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trench, 30" deep, 24" wide, 40 HP, chain trench trenc		USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting controller	1.00 EA		0.75	8.00	107.95	9.87	107.00	0.00	224.82	267.11
EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #16 EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 THWN-THNN-THHN, copper, stranded, #6 THWN-THHN, copper, stranded, #6 THW		MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher			33.25	0.11	4.64	4.30	0.00	0.00	8.93	10.61
EL <16119 1250 > Wire, 600 volt, type THWN-THHN, 3.24 MLF EELEELEC1 0.13 26 1,574 0.00 105.93 0.00 515.57 0 1,982 COPPEr, stranded, #10 1.00 1.00 1.00 105.93 0.00 105.93 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0		EL <16119 1200 > Wire, 600 volt, type copper, stranded,	0.22 ML		0.14	7.25	371.05	00.00	69.02	0.00	440.07	522.84
e THWN-THHN, 1.55 MLF EELEELECI 0.08 19 1,164 0 541 0 1,705		EL <16119 1250 > Wire, 600 volt, type copper, stranded, #	3.24 ML		0.13	8.00	1,574	0.00	105.93	0.00	515.57	612.55
		MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6	1.55 ML	F EELEELECI	0.08	12.35	632.16	0.00	293.72 541	0.00	925.88	1100.03

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
304 Submittal
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5.60 56.67 5.20 6.13 7.19 12.97 84.59 8.66 7.19 6.45 5.20 5.08 467.03 615.34 TOTAL COST UNIT COST 2730.93 952.34 UPB ID: UP01EA 47.70 5.16 10.92 393.09 934 517.92 615 71.20 7.29 101 5.43 4.38 4.71 260 6.05 28 142 4.27 4.38 NAT01A OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 : 1 CREW 0.27 0.27 32.53 354.06 421 53.50 64 1.12 0.91 0.80 0.16 1049.67 0.54 3.21 321.00 269.11 1.43 EQUIPMNT MATERIAL 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 65.02 0.00 0.00 0.00 0.00 0.00 1248.90 415.55 123.98 163.86 195 17.70 4.11 2,335 4.11 LABOR 4.11 5.14 3.28 15.17 4.63 495 5.14 49 110 6.17 4.63 7.71 44 121 24.39 0.30 0.15 2.42 3.20 0.35 0.09 0.10 7.99 0.12 0.10 0.09 0.08 0.06 0.08 0.08 MANHRS OUTPUT 3.38 16.67 2.89 20.83 25.00 27.78 15.63 0.04 0.31 0.41 0.31 31.25 27.78 25.00 31.25 31.25 Currency in DOLLARS 0.08 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EFLEELECT QUANTY UOM CREW ID EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER3 1.00 EA 2.00 EA 1.60 EA 254.00 LF 50.00 EA 90.00 EA 8.00 EA 12.00 EA 1.00 EA 1.00 EA 6.00 EA 14.00 EA 22.00 EA 478.00 EA 54.00 EA MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv 009 USR EL <16232 2483 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex WP volt 4 pole, electrically held NOTE: Use for LC1 & LC2 5510 > Safety switch, nvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, gnd MIL EL <16711 0500 > Elec & tel sitewk, $2^{+}x2^{-}x2^{-}-6^{+}$ D, hand holes, precast conc, 2482 > Wiring device, receptacle, gn fault intrpt, 20 amp, duplex 0620 > Contactor, lighting, 30 amp, USR EL <16153 0010 > Cable Termination #1/0 copper, stranded, 1/0 USR EL <16153 0013 > Cable Termination #10 0014 > Cable Termination #12 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0016 > Cable Termination #16 9# 8# USR EL <16153 0011 > Cable Termination #4 <16153 0012 > Cable Termination #6 USR EL <16153 0012 > Cable Termination USR EL <16153 0013 > Cable Termination W/conc cov EQUIP ID: C43RES MIL EL <16232 <16153 <16333 MIL EL <16338 USR EL MIL EL USR EL LABOR ID: C43RES 09.03. Gate S14

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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HILE GROUND Comparing only, steel rigid galv 191, 0 of ERIMERICA 11.63 6.23 6.23 6.23 6.25 6.23 6.25 6	09.03. Gate S14			QUANTY UOM CREW	TUO QI	OUTPUT MA	MANHRS	LABOR EQ	EQUIPMNT M	MATERIAL	OTHER T	TOTAL COST U	UNIT COST
		MIL EL <16018 0540	1" dia, incl teel rigid galv	LF		.63	0.09	4.40 6,233	0.00	2.18	0.00	6.59	7.83
		MIL EL <16018 0580	1.5" teel	LF		.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
1260.00 L ELLEELECT 22.50 56 3,407 0.00 1,794 0.00 5,201 1361.00 L ELLEELECT 15.63 0.06 3.487 0.00 1,794 0.00 0.00 341.01 342.01 34		MIL EL <16712 1030	<pre>> Conduit, direct burial, PVC sched 40, 1" dia, w/coupling</pre>	LF		. 50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
EL <167018 0520 > Concount to 15° H, 3/4" did, incl. EL <16712 1030 > Concount to 15° H, 3/4" did, incl. EL <16712 1030 > Concount direct burial only, PVC so. or le ERLERIECT 22.50		MIL EL <16712 1050	<pre>> Conduit, direct burial, PVC sched 40, 2" dia, w/coupling</pre>	LF		. 50	0.04	2.28	00.00	1.20	00.0	3.47	4.13
EL <16712 1050		MIL EL <16018 0520	3/4" dia, teel rigid	LF		. 63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
EL <16712 1030 > Conduit, direct burial only, PVC		MIL EL <16712 1050	<pre>> Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling</pre>	LF		.50	0.04	2.28	0.00	1.20	00.0	3.47	4.13
EL <16018 0580 > Conduit to 15' H, 1.5" dia, incl		MIL EL <16712 1030	<pre>> Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling</pre>	LF		.50	0.03	1.58	0.00	0.57	00.00	2.14	2.55
EL <16018 0540 > Conduit to 15' H, 1" dia, incl		EI	1.5" tee1	LF		.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling		EI		LF		. 63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
We coupling We coupling		E	<pre>> Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling</pre>	LF		.25	0.03	1.41	0.00	0.39	0.00	1.80	2.14
ype THWN-THHN, o.07 MLF EELEELECI 0.16 0.14 314.14 0.00 44.19 0.00 358.33 4 29 4 0.00 358.33 4 29 4 29 4 29 4 29 4 29 4 29 4 29 4 29 4 29 4 29 4 29 4 39.80 0.00 93.82 2 4 39.80 0.00 93.82 2 4 39.80 0.00 93.82 2 4 37.00 35.7 0.00 15.38 1 37.33 1 37.33 1 37.33 1 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6 37.41 6		EI	<pre>> Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling</pre>	LF		.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
yv, #22-#10, t term blocks 12.00 EA EELERZO 1.24 1.05 54.01 0.00 39.80 0.00 93.82 t, term blocks 12.00 EA EELEELEZO 1.24 13 770 0.00 567 0.00 1,338 1 tpe THWN-THHN, #10 5.57 MLF EELEELEZO 8.00 409.64 0.00 105.93 0.00 515.57 #10 ckt brkt,15 - 1C,1 P,120V 2.00 EA EELEELEZO 1.25 2 97 0 0.00 51.66 ckt brkt,70 - AIC,1 P,120V 2.00 EA EELEELEZO 1.00 51.21 0.00 20.33 0.00 71.54 ARC,1 P,120V 2.00 EA EELEELEZO 1.00 20.33 0.00 71.54		EI		MLF		.16	6.14	314.14	0.00	44.19	0.00	358.33	425.73
#10		CIV EL <16153 0320	> Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, and #10	EA		. 24	1.05	54.01 770	0.00	39.80 567	0.00	93.82	111.46
CKT DEKKF,15 - 2.00 EA EELEGIECI 1.25 2 97 0.00 10.70 0.00 51.66 12.7 E.120V 2.00 EA EELEGIECI 1.00 51.21 0.00 20.33 0.00 71.54 AIC,1P,120V 2.00 EA EELEGIECI 1.00 2 122 0 48 0 170		MIL EL <16119 1250	<pre>> Wire, 600 volt, type THWN-THHN, copper, stranded, #10</pre>	MLF		.13	8.00	409.64 2,713	0.00	105.93 702	00.00	515.57	612.55
CKt DrKt,70 - 1.00 EA EELEELECI 1.00 2 122 0.00 20.33 0.00 71.54 AIC,1P,120V 2.00 EA EELEELECI 1.00 2 122 0 48 0 170		MIL EL <16326 0100	ckt IC, 1	EA		.25	0.80	40.96	0.00	10.70	0.00	51.66	61.38
		MIL EL <16326 0310	ckt brkr,70 AIC,1 P,120V	EA		00.	1.00	51.21 122	0.00	20.33	0.00	71.54	84.99

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Calvert PROJECT C43RES:

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373.99 102.04 168.87 22292.35 TOTAL COST UNIT COST 1258.36 603.94 2730.93 1100.03 522.84 625,11 102.04 180.11 214.54 18763.03 1059.14 2298.57 1,598 440.07 3,459 85.88 151.60 180 180.57 142.13 169 314.78 85.88 925.88 526.15 3.47 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 19.57 428.54 19.57 69.67 83 69.98 44.60 7490.00 17,798 160.50 293.18 1049.67 69.02 542 360.59 EQUIPMNT MATERIAL 293.72 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0 00.0 0 11273.03 26,787 66.31 630.60 110.59 394 97.53 116 2.28 LABOR 215.15 1248.90 868 371.05 2,916 81.93 165.56 66.31 1,654 154.28 183 632.16 219.30 1.29 1.60 2 0.04 24.39 0.09 1.29 2.16 1.90 12.32 4.20 7.25 3.00 12.35 9 MANHRS 0.63 0.46 0.53 0.83 1.94 0.24 0.04 0.08 0.14 0.55 1.94 0.01 DUTPUT 0.08 22.50 1.00 EA EELEELEC1 1.00 EA EELEELEC1 0.59 MLF EELEELEC1 0.16 MLF EELEELEC1 6.62 MLF EELEELEC1 EELEELEC1 **EELEELEC1 EELEELEC1** EELEELEC1 Ω EELER19 EELER19 EELER19 EELER19 0.02 MLF EELER18 QUANTY UOM CREW ΕÀ 1.00 EA 21.00 EA 1.00 EA 3.00 EA 1.00 EA 555.00 LF 1.00 EA 2.00 MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling Pull box, ninged, steel, NEMA 4, 12"W x 12"H x 6"D MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12 MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, MIL EL <16213 0330 > Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6" MIL EL <16325 4340 > Panelboard assem, 20-20A brkr, main Lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for distribution panel L MIL EL <16337 1700 > Safety switch, heavy duty, 600 V, 3 pole non fused, 100 A MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, MIL EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4 NOTE: Use for 2/0 cadweld copper, stranded, #6 USR EL <16869 0090 > Lighting Contactor USR EL <16820 3580 > Stilling well cadweld CIV EL <16213 2744 > ۸ MIL EL <16213 0380 09.03. Gate S14

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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Mil. Ex. (1633) 9500 Concrete integenine polstices and control a	09.03. Gate S14		QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
E. G. G. C. C. C. C. C. C					 	: - - - - - - - -					 	
EL (16313 9650) Note that the connection by Utility Cabination not only, 30 amps, and the connection by Utility Cabination not connection not connect		USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, conduit, etc.	1.00 EA	EELER18	0.04	75.69	2088.43	00.00	3210.00	0.00	5298.43 6,295	6295.07
EL 41571 1010 California 1.00 EL ELERIS 1.00 EL ELERIS 1.00 EL ELERIS 1.00 1.00 1.00 EL ELERIS 1.00		Safety switch, hvy w/ fuse, 600 voit, 3R	4.00 EA	EELEELEC1	0.31	3.19	163.59	0.00	354.06 1,683	0.00	517.66 2,460	615.03
EL <1671 1710 > Cobbinet, hinged, 36 °W x 30 °		MIL EL <16313 9650 > Motor starter & cont, NEWA 1, size i, comb, rev, w/disc switch	2.00 EA		0.30	8.33	428.38	0.00	871.23 2,070	0.00	1299.60	1544.06
EL 416711 0011 > Meter connection by Utility EL 416711 0011 > Meter connection by Utility EL 416711 0011 > Meter connection by Utility EL 416711 0011 > Meter connection by Utility EL 416711 0011 > Meter connection by Utility EL 416711 0011 > Meter connection by Utility EL 416324 0100 > Meter centers & socket, 1 position EL 416314 0100 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 416318 4000 > Meter centers & socket, 1 position EL 41810 6001 > Limit and Rotary Switches EL 41810 6002 > Push Button Stations EL 41810 6002 > Push Button Stations EL 41813 6010 > Cable Termination #10 EL 41813 601		CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H x 12"D, sheet met, dbl dr, NEWA 3R NOTE: Use for RTU enclosure	1.00 EA		0.25	4.00	204.82	0.00	363.73 432	0.00	568.55 675	675.49
EL 416314 0101 Meter connection by Utility 1.00 LS 1.00		<16333 1401 >	1.00 EA	EELER19	1.88	1.33	68.30	0.00	128.40	0.00	196.70	233.70
EL <16324 0100 > Mater centers & socket, 1 position 1.00 EA ELEBELECI 0.40 3.5 152 0.00 3.5 0.00 197 197 197 190 190 A, socket, 1 position 1.00 EA ELEBELECI 0.21 4.85 248.57 0.00 1,224 0.00 1,214 0.00 0.214 0.00 1,214 0.00 0.214 0.		<16711 0011 > Meter Connection by	1.00 LS	s.	00.00	00.00	0.00	00.00	0.00	700.00	700.00	831.67
EL <1638 4000 > Safety switch, hay dty, 100 amp, w/ fuse, 600 voit, 3 pole NEMA 1 2.00 EA ELELECT 0.21 10 591 0.00 1,224 0.00 1,224 0.00 1,1814 99 1,1814 99 1,181 0.00 1,224 0.00 1,224 0.00 1,224 0.00 1,1814 99 1,181 0.00 1,224 0.0		<pre><16324 0100 > Meter centers & sockets, 4 100 A, socket, 1 position</pre>	1.00 EA	BELEELEC1	0.40	2.50	128.01	0.00	29.48	0.00	157,49	187.12
EL <13810 5471 > Surge Suppressor To Cable Suppressor To Cable Termination #100 EA HINDO EA H		<16338 4400 > Safety switch, hvy w/ fuse, 600 volt,		BELEELEC1	0.21	4.85	248.57	0.00	514.97	0.00	763.54	907.16
EL <13810 0001 > Limit and Rotary Switches 6.00 EA MSHWQ20 0.55 4.25 798 0.00 26.75 0.00 138.73 11.98 0.00 26.75 0.00 198.9 1 EL <13810 0002 > Push Button Stations 4.00 EA MSHWQ20 0.63 4.60 105.93 0.00 53.50 0.00 159.43 1.25 0.00 105.93 0.00 25.4 0.00 159.43 1.25 0.00 2.54 0.00 25.4 0.00 159.43 11.20 EA ELERI9 27.78 12.00 EA ELERIP 27.78 12.20 Wiring device, receptacte, gnd fault intrpt, 15 amp, duplex 4.00 EA ELELELECI 3.38 17.8 17.8 0.00 26.7 0.00 25.4 0.00 2		<13810 5471 >		EELER19	0.48	5.26	270.55	0.00	107.00	0.00	377.55	448.57
EL <13810 0002 > Push Button Stations 4.00 EA MSHMQ20 0.63 16 503 0.00 53.50 0.00 159.43 15 120		<13810 0001 > Limit and Rotary Swi		MSHMQ20	0.59	4.23	111.98	0.00	26.75	0.00	138.73	164.83
EL <16153 0016 > Cable Termination #10 EL <16153 0016 > Cable Termination #10 EL <16153 0014 > Cable Termination #14 EL <1653 0014 > Cable Termination #14 EL <1653 0014 > Cable Termination #14 EL <1653 0014 > Cable Termination #14 EL <1653 0014 > Cable Termination #14 EL <1653 0014 > Cable Termination #14 EL <1653 0014 > Cable Termination #14 A · 00 EA ELEBLECI 3.38		USR EL <13810 0002 > Push Button Stations		MSHMQ20	0.63	4.00	105.93	0.00	53.50 254	0.00	159.43	189.42
EL <16153 0014 > Cable Termination #14 12.00 EA EELER19 31.25 1 59 0.00 0.21 0.00 4.33 EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, quplex 1.00 EA EELEELEC1 3.38 1 72 0.00 30.82 0.00 45.99 EL <16234 0160 > Wiring device, concealed, switch, 20 amp, SPST 2.00 EA EELEELEC1 1.38 1 88 0.00 9.68 0.00 46.92		USR EL <16153 0016 > Cable Termination #10	128.00 EA	EELER19	27.78	0.09	4.63	0.00	0.54	0.00	5.16	6.13
EL <16232 2480 > Wiring device, receptacte, gnd fault intrpt, 15 amp, duplex 4.00 EA EELEELECI 3.38 1 72 0.00 30.82 0.00 45.99 219 EL <16234 0160 > Wiring device, concealed, switch, 20 amp, SPSI 2.00 EA EELEELECI 1.38 1 88 0.00 9.68 0.00 46.92 111		USR EL <16153 0014 > Cable Termination #14		EELER19	31.25	0.08	4.11	0.00	0.21	0.00	4.33	5.14
2.00 EA EELEELEC1 1.38 1 88 0 23 0 111		EL <16232 2480 > Wiring device, receptacle, fault intrpt, 15 amp, duple	4.00 EA	BELEELEC1	3.38	0.30	15.17	0.00	30.82	0.00	45.99	54.64
		MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST	2.00 EA	EELEELEC1	1.38	0.73	37.24	00.00	9.68	0.00	46.92	55.75

EQUIP ID: C43RES LABOR ID; C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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High Et cless 3500 Poster, area lighting, 10 '141 High Et cless 3500 Poster, area lighting, 20 '141 High Et cless 3500 Poster, area lighting, 20 '141 High Et cless 3500 Poster, area lighting, 20 '141 High Et cless 3500 Poster, area lighting, 20 '141 High Et cless 3500 Poster, area lighting, 20 '141 High Et cless 3500 Poster, area lighting, 20 '141 High Et cless 3500 Poster, area lighting, 20 '141 High Cless 3500 Poster, 20 '141 High Cless 3500 Poster, 20 '141 High Cless 3500 Poster, 20 '141 High Cless 3500 Poster, 20 '141	09.03. Gate S14		QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
No. No.		MIL EL <16617 3000 > Poles, area lighting, 10' tall,				2.09	104.23	17.77	497.55	0.00	619	
Color Colo		round, 3" OD, al, non-tapered	2.00 EA	EELER15	2.88	4	248	42	1,182	0	1,472	736.09
LL, 1'Mal, Code Tale Eeleris Color Col		MIL EL <16617 3500 > Poles, area lignting, 20' tall, round, 3" OD, galv steel, tapered	2.00 EA	EELER15	0.89	6.76	337.46 802	57.54	371.08	0.00	766.07	910.17
Ling Ling		<16617 3300	4.00 EA	EELER15	0.75	8.00	399,55	68.12	246.10	0.00	713.77	848.03
Fench, 50,00 G.84 MLF EELER18 0.35 8 258 0.00 1134.20 0.00 11,125 0.00 1,383 1.1 1.00 EA EELER19 0.16 13 829.11 0.00 535.00 0.00 1364.11 1.00 EA EELER19 0.16 13 829.11 0.00 65.16 0.00 1364.11 1.00 EA EELER22 3.25 1.43 67.39 0.00 65.16 0.00 132.55 0.00 132.55 0.00 132.55 0.00 132.55 0.00 132.55 0.00 132.55 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.60 0.00 132.00 0.00 132.60 0.00 132.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00		<16181 0105 >		EELEELEC1	0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
Lr, 1'x4', trans, tra		<16181 6020 > Grounding, laid in t copper, bare strande	0.84 MLE		0.35	9.43	260.16 258	0.00	1134.20	0.00	1394,36	1656.64
Halide		USR EL <16865 0125 > Level Gage		EELER19	0.16	16.13 16	829.11	0.00	535.00	00.00	1364.11	1620.70
Halide 2.00 EA EELEELEC2 0.72 6 141.33 0.00 454.75 0.00 596.08 1,416 0 1,081 0 1,081 0 1,416 0 1,416 0 1,081 0 1,081 0 1,416 0 1,416 0 1,416 0 1,081 0 1,416 0		MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8)	4.00 EA	EELER22	3.25	1.43	67.39 320	0.00	65.16	00.00	132.55 630	157.49
Halides Librates 2.00 EA EELEELECZ 0.72 6 141.33 0.00 454.75 0.00 596.08 1,416 0.1416			2.00 EA	EELEELEC2	0.72	2.76	141.33	00.00	454.75	0.00	596.08	708.21
Halide 2.00 EA EELEELEC 0.72 6 336 0 1,081 0.00 596.08 1,416 0 1,081 0 1,416 0 1,416 0 1,081 0 1,081 0 1,416 0 1,416 0 1,081 0 1,081 0 1,416 0 1,416 0 1,081 0 1,531 0 0.00 1,416 0 1,416 0 1,510 0 1,531 0 0.00 0 1,416 0 1,416 0 1,510 0 1,510 0 1,416 0 1,510 0 1,416 0 1,4		e type										
etal 4.00 EA EELER19 1.08 2.33 119.55 0.00 322.07 0.00 441.62 2.099 etal 8.00 EA EELER22 2.88 1.62 76.18 0.00 151.62 0.00 227.80 3320.00 LF COETR23 33.25 356 18,289 16,951 0.00 35,240 HN, 0.03 MLF EELEELECT 0.07 0 512.05 0.00 182.44 0.00 694.48 HN, 0.80 MLF EELEELECT 0.10 8 487 0.00 1731 0.00 694.48		Hallde e type	2.00 EA	EELEELEC2	0.72	2.76	141.33 336	0.00	454.75	0.00	596.08 1,416	
Od 8.00 EA EELER22 2.88 13 724 0.00 151.62 0.00 227.80 2.7180 0.00 1.441 0.0 2.7180 0.165 0.00 0.00 0.165 0.		۵	4.00	EELER19	1.08	2.33	119.55 568	0.00	322.07	0.00	441.62 2,099	
3320.00 LF COETR23 33.25 358 18,289 16,951 0 0.00 8.93 HN, 0.03 MLF EELEELECT 0.07 10.00 512.05 0.00 182.44 0.00 694.48 HN, 0.80 MLF EELEELECT 0.10 8 487 0.0 173 0 660 8		<16611 4120 > Ltg fxtr, surf/penda compact fluorescent NOTE: Use for type E	8.00 EA	EELER22	2.88	1.62	76.18 724	0.00	151.62	0.00	227.80 2,165	
THWN-THHN, 0.03 MLF EELEELEC1 0.07 0.07 28 0.00 448.33 0.00 1224.16 THWN-THHN, 0.80 MLF EELEELEC1 0.10 8 487 0 173 0 660		MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	3320.00 LF	COETR23	33.25	0.11 358	4.64	4.30 16,951	0.00	0.00	8.93 35,240	10.61
THWN-THHN, 0.80 MLF EELEELECI 0.10 8 487 0 173 0 694 48 660		<16119 1400 > Wire, 600 volt, type copper, stranded, #4	0.03 MLE		0.07	15.15	775.83	0.00	448.33	0.00	1224.16	1454.43
			0.80 MLE	BELEELEC1	0.10	10.00	512.05 487	0.00	182.44	0.00	694.48	825.1

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.03. Gate S14		OT MANY WOLL VERMEN	At Mag							-	1
			CVPH TO	1001100	MANNERS	LABOR	ECO I PRIN I	MAIEKIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
Ω	USR EL <16119 0990 > Wire, 600 volt, type THWN-THHN, #16	0.16 MLF	EELEELEC1	0.17	5.75	294.28	0.00	42.80	0.00	337.08 65	400.49
Ω	USR EL <16153 0010 > Cable Termination #1/0	30.00 EA	EELER19	16.67	0.15	7.71	0.00	3.21	0.00	10.92	12.97
Ω	USR EL <16513 2015 > Emergency Generator 20 KW	1.00 EA	EELER3	90.0	39.68	2064.57	323.02	18725.00	0.00	21112.59	25083.87
Σ	MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole	1.00 EA	EELEELEC1	0.16	6.15	315.11	0.00	3107.28	0.00	3422.39	4066.14
Ω	USR EL <16323 0001 > Terminal Box	1.00 EA	EELEELEC1	0.42	2.40	122.79	0.00	802.50	0.00	925.29	1099.34
	TOTAL Electrical	1.00 EA		•	2,468	141,039	27,000	119,624	1,663	289, 327	289327.30
09.03.1	09.03.15. Equipment Building										
Ω	USR AA <03450 0001 > Precast Concrete Building Note: Note: Material price from Concrete Modular Systems 727-945-1756 ATTN: Frederick Kennedy	1.00 EA	SIWSE7A	0.06	130.08	7180.22	1676.22 1,676	41730.00 41,730	00.00	50586.44 50,586	50586.44
Σ	MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use	68.00 LF	ACARC1	75.00	0.05	0.96	0.00	0.51	0.00	1.48	1.48
Σ	MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7	0.20 TON	0.20 TON SIWRRODM4	0.29	13.89	363.20	0.00	727.60	0.00	1090.80	1090.80
E	RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi	5.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 631	0.00	126.26	126.26
Σ	MIL AA <03372 4400 > Placing conc, stab on grade, 6" thick, w/crane & bucket	5.00 CY	ULABC7	13.75	0.58	10.01	7.94	0.00	0.00	17.95	17.95
Σ	MIL AA <03396 G010 > Finishing floors, monolithic, screed finish	264.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
Σ	MIL AA <03396 0100 > Finishing floors, monolithic, float finish	264.00 SF	ACMACEF11	90.63	0.01	0.22	0.00	0.00	0.00	0.22	0.22
Σ	MIL AA <03396 0150 > Finishing floors, monolithic, broom finish	264.00 SF	ACMACEF11	84.38	0.01	0.23	0.00	0.00	0.00	0.23	0.23
Σ	MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill	5.00 CY	CODFB10N	47.50	0.03	1.07	0.77	16.26	0.00	18.10	18.10

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
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TOTAL Equipment Building 1.00 JB M A 0.00 0.00 0.00 0.00 0.00 0.00 0.00	09.03. Gate S14	QUANTY UOM CREW ID	ID OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
TOTAL Equipment Building 1.00 JB N/A 0.00 0.00 200.00 0.00 856.00 0.00 1056.00	under precast building									
3001 > Level Control Gate IO Points 1.00 EA N/A 0.00 0.00 2010 0.00 856.00 0.00 1056.00 2.00 EA N/A 0.00 0.00 2010 0.00 856.00 0.00 1056.00 3001 > Destream Downstream Level IO 2.00 EA N/A 0.00 0.00 200.00 0.00 856.00 0.00 1056.00 3001 > Destream Downstream Sampler IO Points 1.00 EA N/A 0.00 0.00 200.00 0.00 856.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 100.00 0.00 856.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 100.00 0.00 856.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 105.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 105.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 105.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 105.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 105.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 105.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 1056.00 3001 > Telemetry To/From Gated 1.00 EA N/A 0.00 0.00 1056.00 3001 0	TOTAL Equipment Building	1.00 JB		148	7,537	1,720	42,623	0	51,880	51880
1.00 EA N/A 0.00	09.03.95. Controls									
1.00 EA N/A 0.00 0.0		EA	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323
100 EA N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.000 0.00 1,324 1435 1324 1435	USR MC <15743 0001 > Upstream Downstream Level IO Points	EA	00.0	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
MC <15743 0001 > Emergency Generator IO Points 1.00 EA N/A 0.00 0.00 251 0.01 1,073 0.00 1,324 132 133 134 133 132 134 133 133 134 133 134 134 135 134 135 134 135 134 135 134 135 134 135 134 135 134 135 134 135 135 134 135 134 135 135 134 135 135 134 135 134 135 135 134 135 135 134 135 134 135 135 134 135 134 135 134 135 134 135 134 135 134 135 134 135 134 135 134 135 134 135 135 134 135 1		EA	00.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
MC <15743 0001 > Telemetry To/From Gated	USR MC <15743 0001 > Emergency Generator IO Points	EA	0.00	0.00	200.00	0.00	856.00	0.00	1056.00	1323.70
MC <15743 0001 > 16 VHF Data Radios Structure Structure Structure Structure MC <02230 2850 > Excavate utility trench, 36" Co2230 2850 > Excavate utility trench, 36" MC <15743 0001 > Control Conduit & Cable TOTAL Cate S14 TOTAL Gate S14 Structure 1.00 EA N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.13 0.00 0.00 0.00 0.00 0.13 0.00 0.13 0.00 0.13 0.00 0.14.8 0.00 264.639 3,471 127,913 4,744 163,632 0.15.84 0.00 264.639 1.00 EA		EA	00.0	0.00	100.00	0.00	535.00	0.00	635.00	795.97
MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher trencher trencher	USR MC <15743 0001 > 16 VHF Data Radios Structure	EA	00.0	0.00	300.00	0.00	1605.00	0.00	1905.00	2387
Cable 29000 LF EELER18 30.35 3,152 109,055 0 155,584 0 264,639 1.00 EA 3,4148 334,487 44,891 450,364 1,663 831,405 831405	MC <02230 2850 > Excavate utility trencr deep, 12" wide, 40 HP, trencher			0.01	0.47	0.13	0.00	0.00	0.60	0
1.00 EA 3,471 127,913 4,744 163,632 0		LF		0.11	3.00 109,055	0.00	4.28 155,584	00.0	7.28	o.
1.00 EA 7,748 334,487 44,891 450,364 1,663	TOTAL Controls	1.00 EA		3,471	127, 913	4,744	163, 632	0	296,289	296288
	TOTAL Gate S14	1.00 EA		7,748	334,487	44,891	450,364	1,663	831,405	831405

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PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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Gate S15	QUANTY UOM CREW	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNI
09.04. Gate S15									 	i i
09.04.03. Concrete										
09.04.03.01. Slab On Grade										
09.04.03.01.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	130.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	150.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	11.76 TON	SIWRRODM4	0.29	13.89	363.20 4,271	0.00	963.00 11,325	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	130.00 CY	N/A	00.00	00.0	0.00	0.00	126.26	0.00	126.26	126.26
TOTAL Base Slab	1.00 EA		1	215	5,029	47	27,864	0	32,940	32939.69
TOTAL Slab On Grade	1.00 EA		1	215	5,029	47	27,864	0	32,940	32939.69
09.04.03.03. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, $\$3$ to $\$7$	11.14 TON	11.14 TON SIWRRODM4	0.38	10.67	278.93	00.0	963.00 10,728	0.00	1241.93 13,835	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	100.00 CY	N/A	00.00	0.00	0.00	0.00	126.26 12,626	0.00	126.26	
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	100.00 CY	CLABC20	13.75	0.58	10.01	6.21 621	0.00	0.00	16.22	
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	4440.00 SF	ACARC2	54.38	0.11	2.08	0.00	0.81 3,611	0.00	2.90	
TOTAL Walls	1.00 EA		ı	667	13, 362	621	26, 964	0	40,948	40947.54
09.04.03.07 Elevated Slabs										
09.04.03.07.01. Elevated Slab										
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use 1	1320.00 SF	ACARC2	61.88	0.10	1.83	0.00	1.14	00.00	2.98	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.04. Gate \$15	QUANTY UOM CREW ID	4 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
AF AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped	45.00 CY	CLABC20	22.50	0.36	6.12	3.80	00.0	0.00	9.91	9.91
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	45.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	4.51 TON	4.51 TON SIWRRODM4	0.29	13.89	363.20 1,638	0.00	963.00	0.00	1326.20	1326.20
TOTAL Elevated Slab	1.00 EA			207	4,331	171	11,536	0	16,038	16037.72
TOTAL Elevated Slabs	1.00 EA		·	207	4,331	171	11,536	0	16,038	16037.72
09.04.03.08. Beams										
09.04.03.08.01. Needle Beams										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	0.50 TON	0.50 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93 621	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	4.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket	4.00 CY	ULABC7	8.13	0.98	16.94	13.44	0.00	0.00	30.38	30,38
CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders	215.00 SF	ACARC2	47.13	0.13	2.40	0.00	1.02	0.00	3.42	3.42
TOTAL Needle Beams	1.00 EA		,	37	724	54	1,205	0	1,983	1983.09
TOTAL Beams	1.00 EA		·	37	724	54	1,205	0	1,983	1983.09
TOTAL Concrete	1.00 EA			1,125	23,446	892	67,569	0	91,908	91908.04
09.04.04. Erosion Control System										
MIL AA <02244 1510 > Base course, crushed stone, 3/4" max size, compacted, 3"D, Large areas	737.00 CY	COFGB36C	54.38	0.09	3.39	4.02	25.96 19,131	0.00	33.37 24,592	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	134.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93
TOTAL Erosion Control System	1 00 T		•						111111111111111111111111111111111111111	

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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09.04. Gate \$15		QUANTY UOM CREW ID	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
09.04.05. Gates			; 	1	1		• • • • • • • • • • • • • • • • • • •				
USR AA <05150 0001 > Slide Gate 10'	Gate 10' x 8' SST	1.00 EA	SIWSE21	0.01	615.38 615	36345.67 36,346	7798.42	38306.00 38,306	0.00	82450.08	82450.08
USR AA <05150 0001 > Weir Gate 10	ate 10' x 4' SST	1.00 EA	SIWSE21	0.03	233.92	13815.61 13,816	2964.31	21400.00	0.00	38179.92 38,180	38179.92
TOTAL Gates		1.00 EA		•	849	50,161	10,763	59,706	0	120,630	120630.00
09.04.06. Stop Logs											
USR AA <05548 0611 > Stop Log	бо	516.00 SF	SIWSE4	8.93	0.45	27.93	1.06	85.60	0.00	114.58	114.58
TOTAL Stop Logs	sbo	1.00 EA			231	14,411	545	44,170	0	59,125	59124.98
09.04.07, Rip Rap											
MIL AA <02244 1510 > Base course,crushed max size, compacted, areas	Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	476.00 CY	COFGB36C	54.38	0.09	3.39	4.02	25.96 12,356	0.00	33,37	33.37
CIV AA <02250 2140 > Geotextile fabric, thick, non-woven p	Geotextile fabric, 120 mil thick, non-woven polypropylene	1904.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93
MIL AA <02270 1000 > Rip-rap from tr	Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	952.00 CY	CODEB3A	9.75	0.51	10.53	6.14 5,841	24.71 23,520	0.00	41.37	41.37
TOTAL Rip Rap	Q,	1.00 EA		•	570	12,413	8,036	38,505	0	58,954	58954.17
09.04.11. Electrical											
USR EL <16119 0001 > RIU\MOSCAD	SCAD	1.00 EA	EELEELECI	0.03	36.90	1889.48	0.00	2140.00	0.00	4029.48	4787.43
USR EL <16119 0002 > Actuato	> Actuator Starter & Remote Cntrls	2.00 EA	EELEELEC1	0.01	92.59 185	4741.20	0.00	4815.00	0.00	9556.20	11353.73
USR EL <16711 0011 > Meter Connection by	Connection by Utility	1.00 LS		00.00	0.00	00.00	0.00	0.00	700.00	700.00	831.67
USR EL <16181 5999 > Grounding, laid in copper, bare stranc	Grounding, laid in trench, copper, bare stranded, ≇6	0.07 MLF	F EELER18	0.55	00.9	165.56 13	0.00	363.80 28	0.00	529.36	628.93
RSM EL <16324 0100 > Meter centers & sockets, 100 A, socket, 1 position	Meter centers & sockets, 4 term, 100 A, socket, 1 position	1.00 EA	EELEELEC1	0.40	2.50	128.01 152	0.00	29,48	00.00	157.49	187.12

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
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30% Submittal
09. Gated Culvert

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09.04. Gate S15	1		QUANTY UOM CREW	CKEW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
AF EL «	<16622 5230 >	<pre><16622 5230 > HID fxtr, floodlight, 250W high press sodium lamp, encl, neavy duty</pre>	13.00 EA	EELER19	0.69	3.63	186.79	0.00	391.89 6,053	0.00	578.68 8,938	687.53
USR EL	<16611 4100 >	> Compact Fluorescent	7.00 EA	EELER19	1.00	2.50	128.51	00.00	181.90	0.00	310.41 2,582	368.80
USR EL «	<16617 0001 >	<pre><16617 0001 > Light pole foundation 43' tall, round, 3" OD,</pre>	10.00 EA	EELER15	09.0	10.00	499.44 5,934	85.16	214.00	0.00	798.59	948.81
MIL EL	<16617 1040 > Lighting, T, roadway tapered	 Lighting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, tapered 	10.00 EA	EELER15	0.82	7.33	365,89 4,347	62.38 741	903.35	00.0	1331.62	1582.10
USR EL <	<16617 0002 >	<pre><16617 0002 > Lighting, poles, wood, 20' NOTE: Use for Meter Pole</pre>	1.00 EA	EELER15	3.00	2.00	99.89	17.03	460.10	0.00	577.02 686	685.56
MIL EL «	<16338 4400	<pre><16338 4400 > Safety switch, nvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1</pre>	1.00 EA	EELEELEC1	0.21	4.85	248.57	00.00	514.97	0.00	763,54 907	907.16
USR EL	<16181 0105 >	<pre><16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole</pre>	13.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75 2,066	0.00	236.16	280.58
MIL EL «	<16325 4320 >	> Panelboard assem, 12-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for Panel L	1.00 EA	BELEBLEC1	0.12	8.47	433.94 516	00.00	332.77 395	0.00	766.71 911	910.93
USR EL .	<16323 0001 >	USR EL <16323 0001 > Nema 4X Stainless steel encl NOTE: Use for Lighting Controller	1.00 EA	EELEELEC1	0.42	2.40	122.79 146	0.00	802.50	0.00	925.29	1099.34
USR EL	<16333 1401	> Photo-cell	1.00 EA	EELER19	1.88	1.33	68.30	0.00	128.40	0.00	196.70	233.70
USR EL	<03000 0001	<pre><03000 0001 > Concrete foundation NOTE: Use for lighting controller</pre>	1.00 EA	ULABC6	0.75	8.00	107.95	9.87	107.00	0.00	224.82 267	267.11
MIL EL	<02230 4020 >	Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	1430.00 LF	COETR23	33.25	0.11	4,64	4.30	0.00	0.00	8.93 15,179	
MIL EL	<16119 1200	<pre><16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12</pre>	0.22 MLF	EELEELEC1	0.14	7.25	371.05 95	0.00	69.02	0.00	440.07	522.84
MIL EL	<16119 1250	MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranged, #10	3.24 MLF	100100	, , ,	8.00	409.64	0.00	105.93	0.00	515.57	712 55

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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56.67 5.20 6.137.19 12.97 952.34 84.59 8.66 7.19 6.45 5.20 5.08 TOTAL COST UNIT COST 1100.03 2730.93 467.03 615.34 925.88 2298.57 205 47.70 5.16 6.05 10.92 393.09 517.92 7.29 6.05 5.43 4.38 4.38 260 0.00 0.00 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.27 0.54 3.21 1049.67 32.53 321.00 269.11 639 354.06 421 LABOR EQUIPMNT MATERIAL 53.50 1.12 0.91 0.80 0.27 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00 65.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 632.16 1,164 15.17 18 5.14 415.55 123.98 163.86 17.70 21 4.63 4.63 4.11 2,335 4.11 495 110 6.17 5.14 1248.90 44 12.35 24.39 2.42 3.20 0.35 0.30 0.08 0.09 0.10 0.15 7.99 MANHRS 0.12 0.10 0.09 0.08 0.08 OUTPUT 0.08 0.04 3.38 25.00 0.31 0.41 2.89 27.78 31.25 31.25 0.31 31.25 27,78 16.67 20.83 25.00 1.55 MLF EELEELEC1 0.08 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER3 1.00 EA 2.00 EA 54.00 EA 50.00 EA 90.00 EA 12.00 EA 1.00 EA 1.00 EA 6.00 EA 8.00 EA 1.00 EA 14.00 EA 22.00 EA 178.00 EA 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2 2483 > Wiring device, receptacie, gnd fault intrpt, 20 amp, duplex WP 5510 > Safety switch, nvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 MIL EL <16232 2482 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex MIL EL <16711 0500 > Elec & tel sitewk, $2^{1}\times2^{1}\times2^{1}-6^{n}$ D, hand holes, precast conc, USR EL <16153 0010 > Cable Termination #1/0 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0013 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0016 > Cable Termination #16 USR EL <16153 0012 > Cable Termination #6 USR EL <16153 0011 > Cable Termination #4 USR EL <16153 0012 > Cable Termination #6 * USR EL <16153 0013 > Cable Termination <16333 MIL EL <16338 USR EL <16232 MIL EL 09.04. Gate S15

UPB ID: UP01EA

NATOIA

CREW ID: 1

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.04. Gate S15		QUANTY UOM	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST (UNIT COST
		; ; ; ; ; ; ;					1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	254.00 LF	EELEELEC1	15,63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv	1191.00 LF	EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
	MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl couplings only, steel rigid galv	90.00 LE	EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
	MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling	3200.00 LF	EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
	MIL EL <16712 1050 > Conduit, direct buriat, PVC sched 40, 2" dia, w/coupling	1260.00 LF	EELEELEC1	22.50	0.04	2.28	0.00	1,20	0.00	3.47	4.13
	MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv	75.00 LF	EELEELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	5.60
	MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling	530.00 LF	EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
	MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling	900.00 LF	BELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2,291	2.55
	MIL EL <16018 0580 > Conduit to 15' H, i.5" dia, incl couplings only, steel rigid galv	20.00 LF	EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
	MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl couplings only, steel rigid galv	5.00 LF	EELEELEC1	11.63	60°0 0	4.40	0.00	2.18	0.00	6.59	7.83
	MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling	70.00 LF	EFLEELEC1	36.25	0.03	1.41	0.00	0.39	0.00	1.80	2.14
	MIL EL <16712 1030 > Conduit, direct burial only, PVC sched 40, 1" dia, w/coupling	1490.00 LF	BELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
	RSM EL <16119 0920 > Wire, 600 volt, type THWN-THHN, copper, solid, #14	0.07 MLF	EELEELEC1	0.16	6.14	314.14	0.00	44.19	0.00	358.33	425.73
	CIV EL <16153 0320 > Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, and #10	12.00 EA	EELER20	1.24	1.05	54.01	0.00	39.80	0.00	93.82	111.46
	MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10	5.57 MLF	EELEELEC1	0.13	8.00	409.64	0.00	105.93	0.00	515.57	612.55
	MIL EL <16326 0100 > Panelboard&ld ctr ckt brkr,15 - 50A,bolt-on,10k AIC,1 P,120V	2.00 EA	EELEELEC1	1.25	0.80	40.96	0.00	10.70	0.00	51.66	61.38

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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09. Gated Culvert

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09.04. Gate S15		QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
				 	1					
	MIL EL <16326 0310 > Panelboard&id ctr ckt brkr,70 - 100A,bolt-on,10k AIC,1 P,120V	2.00 EA EELEELECI	1 1.00	1.00	51.21	0.00	20.33	0.00	71.54	84.99
	MIL EL <16325 4340 > Panelboard assem, 20-20A brkr, main lugs, 100A, 1pn, 3 wire, 120/240V NOTE: Use for distribution panel L	1.00 BA BELEELECI	1 0.08	12.32	630.60	00.0	428.54 509	00.00	1059.14	12
	MIL EL <16337 1700 > Safety switch, heavy duty, 600 V, 3 pole non fused, 100 A	1.00 EA EELEELECI	1 0.24	4.20	215.15	0.00	293.18	0.00	508.33	603.94
	MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHW, copper, stranded, 1/0	0.59 MLF EELEELECI	1 0.04	24.39	1248.90 868	0.00	1049.67	0.00	2298.57	8
	MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6	0.16 MLF BELEBLEC1	80.08	12.35	632.16	0.00	293.72	0.00	925.88	
	MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12	6.62 MLF EELEELEC1	0.14	7.25	371.05	0.00	69.02	0.00	440.07	522.84
	MIL EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4	0.02 MLF EELER18	0.55	6.00	165.56	0.00	360.59	0.00	526.15	
	MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, cadweld	21.00 EA EELER19	1.94	1.29	66.31 1,654	0.00	19.57	0.00	85.88 2,143	
	CIV EL <16213 2744 > Pull box, ninged, steel, NEMA 4, 12"W x 12"W x 6"D	1.00 EA BELEELECI	0.63	1.60	81.93	0.00	69.67	00.00	151,60	180.11
	MIL EL <16213 0380 > Pull box, sneet metal, NEMA 1, type SC, 24"W x 18"H x 6"D	3.00 EA BELEELEC1	0.46	2.16	110.59	0.00	69.98	0.00	180.57	214 54
	MIL EL <16213 0330 > Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6"	1.00 EA EELEELECI	. 0.53	1.90	97.53 116	0.00	44.60	0.00	142.13	168.87
	USR EL <16820 3580 > Stilling well	2.00 EA EELER19	0.01	219.30	11273.03 26,787	0.00	7490.00	0.00	18763.03	22292.35
	MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling	555,00 LF EELEELECI	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
	USR EL <16869 0090 > Lighting Contactor	1.00 EA EELER19	0.83	3.00	154.28	0.00	160.50	0.00	314.78	373.99
	MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug, cadweld	1.00 EA EELER19	1.94	1.29	66.31	00.0	19.57	0.00	85.88	102.04
LABOR ID: C43RES	EQUIP ID: C43RES	Currency in DOLLARS	RS				CREW	CREW ID: NAT01A	A UPB ID: UP01EA	UPOLEA

CREW ID: NAT01A UPB ID: UP01EA

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09. Gated Culvert

615.03 6.135.14 54.64 55.75 TOTAL COST UNIT COST 1544.06 675.49 233.70 187.12 91.106 831.67 448.57 164.83 189.42 UPB ID: UP01EA 5298.43 6,295 1299.60 3,088 568.55 517.66 2,460 196.70 234 700.00 157,49 187 1,814 377.55 159.43 5.16 4.33 45.99 46.92 763.54 686 NATOIA OTHER 0.00 0.00 0.00 0.00 0.00 700.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 CREW ID: 3210.00 354.06 1,683 128.40 0.00 29.48 514.97 871.23 2,070 363.73 432 107.00 53.50 30.82 LABOR EQUIPMNT MATERIAL 26.75 0.54 9.68 0.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0 2088.43 163.59 428.38 1,018 204.82 68.30 0.00 128.01 152 270.55 321 15.17 37.24 4.63 111,98 105.93 4.11 248.57 591 798 503 59 75.69 3.19 4.00 0.00 4.85 4.23 4.00 8.33 1.33 2.50 5.26 0.09 0.73 MANHRS 0.08 0.30 OUTPUT 0.04 0.31 0.30 0.25 1.88 0.00 0.40 0.21 0.48 0.59 0.63 31.25 3.38 1.38 27.78 Currency in DOLLARS 4.00 EA EELEELEC1 EELEELEC1 EELEELECI EELEELEC1 **EELEELEC1** EELEELECI QUANTY UOM CREW ID EELER18 1.00 EA EELER19 EELER19 EELER19 MSHMQ20 EELER19 EELER19 MSHMQ20 1.00 EA 4.00 EA 2.00 EA 1.00 EA 2.00 EA 1.00 EA 6.00 EA 4.00 EA 2.00 EA 1.00 EA 128.00 EA 12.00 EA 1.00 LS MIL EL <16313 9650 > Motor starter & cont, NEMA 1, size 1, comb, rev, w/disc switch 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPST MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA. 3R CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H x 12"D, sheet met, dbl dr, NEMA 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, NOTE: Use for RTU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <13810 0001 > Limit and Rotary Switches USR EL <16153 0016 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #14 USR EL <13810 0002 > Push Button Stations 5471 > Surge Suppressor conduit, etc. USR EL <16333 1401 > Photo-cell EQUIP ID: C43RES MIL EL <16338 USR EL <13810 EL <16232 ΑF LABOR ID: C43RES 09.04. Gate S15

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 99. Gated Culvert PROJECT C43RES:

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910.17 10.61 825.12 TOTAL COST UNIT COST 736.09 848.03 280.58 1656.64 1620.70 157,49 524.68 276.65 1454.43 708.21 708.21 619.55 766.07 1,820 713.77 236.16 1394.36 1364.11 132.55 596.08 1,416 596.08 1,416 441.62 2,099 227.80 2,165 8.93 1224.16 694.48 660 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 246.10 0.00 1,182 371.08 133.75 1134.20 65.16 310 1,081 1,081 151.62 448.33 182.44 LABOR EQUIPMNT MATERIAL 322.07 636 535.00 0.00 0.00 0.00 0.00 0.00 57.54 68.12 0.00 0.00 0.00 0.00 0.00 0 337,46 104.23 399.55 260.16 258 67.39 141.33 141.33 119.55 568 76.18 4.64 775.83 512.05 102.41 852 985 829.11 6.76 8.00 2.00 16.13 16 1.43 2.76 2.76 2.33 15.15 10.00 5.09 9.43 1.62 0.11 MANHRS OUTPUT 2.88 0.89 0.75 0.50 0.35 0.16 3.25 0.72 0.72 1.08 2.88 33.25 0.07 0.10 EELEELEC2 **EELEELEC2** 0.03 MLF EELEELEC1 0.80 MLF EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER15 EELER15 EELER15 0.84 MLF EELER18 EELER19 EELER19 EELER22 COETR23 EELER22 2.00 EA 2.00 EA 4.00 EA 3320.00 LF 2.00 EA 4.00 EA 7.00 EA 1.00 EA 4.00 EA 2.00 EA 8.00 EA security, ext wall NOTE: Use for type D (250w Metal Halide EH9) MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, MIL EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12) MIL EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8 USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PP8) 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher NOTE: Use for fixture type B NOTE: Use for fixture type C USR EL <16611 0001 > Ltg fxtr, 175w Metal Halide (EH-1) USR EL <16622 3010 > Ltg fxtr, 175w Metal Halide MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0 USR EL <16617 3300 > Light Pole Foundation MIL EL <16622 3060 > Ltg, HID fxtr, 250W USR EL <16865 0125 > Level Gage tapered <02230 MIL EL 09.04. Gate S15

UPB ID: UP01EA

CREW ID: NATO1A

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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09. Gated Culvert

0.17 17.95 0.22 0.23 18.10 TOTAL COST UNIT COST 400.49 12.97 25083.87 4066.14 1099.34 300,783 300783.45 50586.44 1090.80 126.26 50586.44 50,586 21112.59 25,084 337.08 10,92 3422.39 925.29 126.26 631 17.95 389 0.17 0.22 0.23 18.10 46 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 00.0 1,663 18725.00 22,247 41730.00 42.80 3107.28 3,692 0.51 EQUIPMNT MATERIAL 3.21 727.60 146 0.00 0.00 16.26 0.00 00.0 802.50 953 125,345 631 1676.22 1,676 0.00 0.00 7.94 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 0.77 323.02 27,000 LABOR 7.71 2064.57 7180.22 7,180 0.96 1.07 315.11 374 10.01 146 00.0 0.22 0.23 122.79 146,775 0.17 46 6.15 0.15 39.68 2.40 130.08 0.03 40 0.05 13.89 MANHRS 00.0 0.58 0.01 0.01 0.01 OUTPUT 0.17 16.67 90.0 0.16 0.42 90.0 75.00 0.29 00.0 13.75 84.38 112.50 90.63 47.50 EELEELEC1 0.16 MLF EELEELEC1 0.20 TON SIWRRODM4 ACMACEF11 ACMACEF 11 ACMACEF 11 EELEELEC1 CODFB10N QUANTY UOM CREW ID EELER19 1.00 EA SIWSE7A 68.00 LF ACARC1 ULABC7 N/A 30.00 EA 1.00 EA 5.00 CY 5.00 CY ᇇ 1.00 EA 1.00 EA 264.00 SF 264.00 SF 264.00 SF 1.00 EA 5.00 MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use USR AA <03450 0001 > Precast Concrete Building Note: .9 USR EL <16119 0990 > Wire, 600 volt, type IHWN-IHHN, MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole Note: Material price from Concrete Modular Systems 727-945-1756 MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 ATIN: Frederick Kennedy 0150 > Finishing floors, monolithic, broom finish MIL AA <03396 0010 > Finishing floors, monolithic, MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03372 4400 > Placing conc, slab on grade, M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi Κ¥ thick, w/crane & bucket USR EL <16513 2015 > Emergency Generator 20 USR EL <16153 0010 > Cable Termination #1/0 screed finish USR EL <16323 0001 > Terminal Box TOTAL Electrical 09.04.15. Equipment Building MIL AA <03396 09.04. Gate S15

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

09.04. Gate S15

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0.75 9.13 TOTAL COST UNIT COST 51880.06 1323.70 795.97 1323.70 1323.70 1323.70 2387.92 325,925 325925.04 1034057 1056.00 51,880 1056.00 1056.00 2,647 1056.00 635.00 1905.00 0.60 7.28 292,015 1,034,057 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 1,663 179,727 856.00 1,073 856.00 1,073 856.00 2,146 EQUIPMNT MATERIAL 856.00 1,073 1605.00 2,012 0.00 4.28 535.00 42,623 671 576,961 0.00 0.00 1,720 0.00 0.00 0.00 0.13 0.00 00.0 5,235 0 57,175 LABOR 200.00 200.00 300.008 0.47 3.00 120,336 7,537 200.00 200.00 100.00 125 140,964 398,259 0.00 0.00 0.00 0.00 0.00 0.00 148 0.11 OUTPUT MANHRS 0 0.01 3,830 9,387 00.0 0.00 00.0 00.0 00.0 0.00 90.63 30.35 QUANTY UOM CREW ID 32000 LF EELER18 CODBB54 N/A N/A N/A N/A N/A 1.00 EA N/A 1.00 EA 1.00 EA 1.00 EA 2.00 EA 1.00 EA 32000 LF 1.00 JB 1.00 EA 1.00 EA USR MC <15743 0001 > Emergency Generator IO Points AF MC <02230 2050 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher USR MC <15743 0001 > Level Control Gate IO Points USR MC <15743 0001 > Upstream Downstream Level IO Points USR MC <15743 0001 > Dewatering Gate IO Points USR MC <15743 0001 > Telemetry To/From Gated Structure USR MC <15743 0001 > Control Conduit & Cable under precast building TOTAL Equipment Building USR MC <15743 0001 > 16 VHF Data Radios Structure TOTAL Gate S15 TOTAL Controls 09.04.95. Controls

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
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09. Gated Culvert

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09.05. Gate S16	QUANTY UOM CREW ID	TUGILLO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
09.05. Gate S16		 			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		
09.05.03. Concrete									
09.05.03.01. Slab On Grade									
09.05.03.01.01. Base Slab									
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute	55.00 CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	88.00 SF ACARCI	43.75	0.09 8	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, stab on grade, #3 to #7	5.00 TON SIWRRODM4	0.29	13.89	363.20 1,816	0.00	963.00	0.00	1326.20 6,631	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	55.00 CY N/A	00.00	00.00	0.00	0.00	126.26	0.00	126.26	126.26
TOTAL Base Slab	1.00 EA		93	2,177	20	11,833	0	14,030	14029.66
TOTAL Slab On Grade	1.00 EA		93	2,177	20	11,833	0	14,030	14029.66
09.05.03.03. Walls									
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	5.35 TON SIWRRODM4	0.38	10.67	278.93	0.00	963.00 5,152	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	48.00 CY N/A	00.00	0.00	0.00	0.00	126.26 6,060	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	48.00 CY CLABC20	13.75	0.58	10.01	6.21 298	0.00	0.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	2070.00 SF ACARC2	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls	1.00 EA		313	6,287	298	12,896	0	19,481	19480.97
09.05.03.07. Elevated Slabs									
09.05.03.07.01. Elevated Slab									
CIV AA <03150 1500 > Forms in place, elev slab, flat place plywd 15'-20' high 4 use	480.00 SF ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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09. Gated Culvert

9.91 126.26 33.37 1.93 1.93 TOTAL COST UNIT COST 1326.20 5460.54 38971.18 33.37 5460.54 7863.78 114.58 59124.98 41.37 17461.38 9.91 1326.20 38,971 1.93 89 126.26 5,461 5,461 33.37 7,864 114.58 59,125 33.37 41.37 59, 125 1,93 17,461 10 OTHER 0.00 00.0 0.00 0 10 0.00 0.00 0.00 0.00 0.00 0 0.00 126.26 963.00 25.96 6,048 85.60 3,888 28,617 1.38 LABOR EQUIPMNT MATERIAL 44,170 25.96 3,660 1.38 11,404 6,112 24.71 6,967 3,888 0.00 0.00 4.02 0.15 1.06 57 57 4.02 0.15 6.14 375 2,380 944 545 00.0 363.20 1,516 1,516 3.39 0.41 27.93 14,411 14,411 545 3.39 0.41 10.53 9,980 808 3,677 0.36 0.00 13.89 0 0.09 0.02 0.45 OUTPUT MANHRS 73 73 480 0.09 0.02 0.51 231 169 22.50 00.0 0.29 54.38 8.93 9.75 150,00 54.38 150.00 1.50 TON SIWRRODM4 233.00 CY COFGB36C COFGB36C QUANTY UOM CREW ID 15.00 CY CLABC20 CODEB3A 46.00 SY ULABA2 516.00 SF SIWSE4 563.00 SY ULABA2 15.00 CY N/A 141.00 CY 282.00 CY 1.00 EA 1.00 EA 1.00 EA ΕÀ 1.00 JB 1.00 EA 1.00 MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi TOTAL Erosion Control System TOTAL Elevated Slabs TOTAL Elevated Slab TOTAL Stop Logs TOTAL Concrete USR AA <05548 0611 > Stop Log TOTAL Rip Rap 09.05.04. Erosion Control System areas 09.05.06. Stop Logs 09.05.07. Rip Rap ΑF 09.05. Gate S16

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

CREW ID: NATO1A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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OTHER TOTAL COST UNIT COST LABOR EQUIPMNT MATERIAL QUANTY UOM CREW ID OUTPUT MANHRS 09.05. Gate S16

TOTAL Gate S16

1.00 EA

902 28,875

4,244 90,302

0 123,421 123421.33

LABOR ID: C43RES EQUIP ID: C43RES

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.06.0310; Slade on Grade 09.06.0310; Slade on Grade 99.06.0310; Slade on Grade on Grade 99.06.0310; Slade on Grade on Grade 99.06.0310; Slade on Grade o	09.06. Gate S17	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
1.01. Slab On Grade N.03372 6600 Paralise process alabo on grade, 1.02 EA PROMISE STANDARD IN CASE STANDARD	09.06. Gate S17				1					
1.01 Base Slab 1.02 Base Slab 1.03 Base Slab 1.02 Base Slab 1.03 Base Slab 1.03 Base Slab 1.04 Base Slab 1.05 Parting conc, alab on grade, over 12, 4 use 1.05 Parting conc, alab on grade, over 12, 4 use 1.05 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade, over 12, 4 use 1.06 Parting conc, alab on grade 1.06 Parting conc, alab on grade, over 12, 4 use 1.07 Parting conc, alab on grade, over 12, 4 use 1.08 Parting conc, alab on grade 1.08 Parting conc, alab, 12, thick, solon grade, alab, 13, 12, thick, solon grade, alab, 13, 12, thick, solon grade, alab, 13, 12, thick, solon grade, alab, 13, 12, thick, solon grade, alab, 13, 13, 10, 13, 13, 13, 13, 13, 13, 14, 13, 13, 14, 13, 13, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14	09.06.03.00cm									
regular (30.00 CY ULABCA (20.63 0.29 3.93 0.36 0.00 0.00 4.28 (30.00 control of control										
n grade, t chute 70.00 CY ULABC6 20.63 9.93 1.00 EA 1.00 E	09.06.03.01. Slab On Grade									
th chutch the chu	09.06.03.01.01. Base Slab									
segge forms, sedge	MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct chute		20.63	0.29	3.93	0.36	0.00	0.00	4.28	200
Tegular To O C	MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	SF	43.75	0.09	1.65	0.00	0.83	00.0	2.49	
Tregular Trought Tro	M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7			13.89	363.20	0.00	963.00	00.0	1326.20	1326.
1.00 EA 1.0	M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi		00.0	0.00	0.00	0.00	126.26	0.00	126.26	126.26
1.00 EA walls, #3 8.91 TON SIWRRODM4 0.38 10.67 278.93 0.00 963.00 11,066 1241.93 regular 80.00 CY N/A 0.00 0.00 0.00 0.00 126.26 11,066 127.769 11,066 127.769 11,066 128.26 11,066 11,066 11,066 11,066 11,066 11,096 11,098 11,098 11,066 11,098 11,066 11,066 11,066 11,066 11,066 11,066 11,066 11,098 11,081 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 11,066 1	IOTAL Base Slab			117	2, 731	25	15,013	0	17,769	17769.07
regular 80.00 CY N/A 0.38 0.00 0.00 1241.93 11,066 124 12" thick, 80.00 CY CLABC20 13.75 47 801 0.00 0.81 0.00 1.298 1 100 EA ACARC2 54.38 0.10 1.83 0.00 1.14 0.00 2.98 1.30 tab, flat high 4 use 590.00 SF ACARC2 61.88 57 1,081 0.00 675 0.175 0.175 0.108 0.175 0	TOTAL Slab On Grade	1.00 EA		117	2,731	25	15,013	- 0	17.769	17769
regular 80.00 CY N/A 0.38 0.00 0.00 0.00 1241.93 10.66 124 12" thick, 80.00 CY CLABCZO 13.75 0.18 0.10 0.00 0.00 12.293 0.00 1.0.293 0.10 1.298 11.00 EA	09.06.03.03. Walls						•			
12" thick, 80.00 CY N/A 0.00 0.00 0.00 0.00 126.26 0.00 126.26 126.26 126.26 126.26 126.26 126.26 126.26 126.26 126.26 12.00 1	ce, walls,	8.91 TON SIWRRODM		10.67	278.93	0.00	963.00	0.00	1241.93	1241
ing conc, walls, 12" thick, 80.00 CY CLABC20 13.75 47 801 6.21 0.00 0.00 16.22 1.298 1 1.298 1 1.208 0.01 2.293 0.11 2.08 0.00 2.293 0.299 1.1298 1 1.00 EA			0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.
s in place, walls, below gr, and list are seed as a seed of the se	<pre><03372 5100 > Placing conc, wall pumped</pre>	CY	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.
d Slab s in place, elev slab, flat e plywd is'-20' high 4 use 590.00 SF ACARC 61.88 57 1,081 0 675 0 1,756	below built	SF	54.38	0.11	2.08	0.00	0.81	0.00	2.90	2.90
d Slab s in place, elev slab, flat e plywd 15'-20' hign 4 use 590.00 SF ACARC2 61.88 57 1,081 0 675 0 1,756	TOTAL Walls	1.00 EA	,	453	9,163	497	20,974	0	30,635	30634.65
ev siab, flat ' high 4 use 590.00 SF ACARC2 61.88 57 1,081 0 675 0 1,756	09.06.03.07 Elevated Slabs									
high 4 use 590.00 SF ACARC2 61.88 57 1,681 0 675 0 1,756	09.06.03.07.01. Elevated Slab CIV AA <03150 1500 > Forms in place, elev slab. flat			6	6	•	•	•		
	plate plywd 15'-20' high 4 use		61.88	57	1,081	0.00	1.14	0.00	2.98	2

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

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9.91 30.38 3.42 1.93 TOTAL COST UNIT COST 126.26 1326.20 7131.90 7131.90 33.37 1241.93 126.26 1377.24 1377.24 56912.86 24851.61 9.91 126.26 2,525 1326.20 2,652 7,132 7,132 126.26 30.38 3.42 1,377 33.37 1.93 24,852 1,377 56,913 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 00.0 0 0 126.26 2,525 963.00 1,926 963.00 385 126.26 379 0.00 1.02 25.96 19,131 LABOR EQUIPMNT MATERIAL 5,127 5,127 1.38 886 19,316 42,000 3.80 0.00 0.00 0.00 0.00 13.44 0.00 4.02 9/ 0.15 16 40 638 2,984 363.20 726 00.0 2.40 1,929 1,929 0.00 14,274 3.39 16.94 51 0.41 2,551 278.93 451 0.36 0.00 13.89 10.67 00.0 0.13 OUTPUT MANHRS 92 92 0.98 0.09 0.02 22 22 22.50 00.0 0.29 0.38 0.00 8.13 47.13 54.38 150.00 2.00 TON SIWRRODM4 0.40 TON SIWRRODM4 737.00 CY COFGB36C QUANTY UOM CREW ID 20.00 CY CLABC20 3.00 CY ULABC7 120.00 SF ACARC2 134.00 SY ULABA2 20.00 CY N/A 3.00 CY 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 JB MIL AA <02244 1510 > Base course, crushed stone, 3/4" max size, compacted, 3"D, large M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7 CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket TOTAL Erosion Control System TOTAL Elevated Slabs TOTAL Elevated Slab TOTAL Needle Beams 09.06.03.08.01. Needle Beams TOTAL Concrete 09.06.04. Erosion Control System TOTAL Beams 09.06.03.08. Beams AF 09.06. Gate S17

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

CREW ID: NATO1A UPB ID: UP01EA

TIME 09:25:13 DETAIL PAGE 288 52680.32 33,37 1.93 41.37 OTHER TOTAL COST UNIT COST 35215.61 17464.71 114.58 29562.49 24834.89 50084.87 14695.23 35215.61 35,216 17464.71 10626.20 25,250 52,680 20903.03 24,835 50,085 114.58 29,562 29,562 33.37 1.93 41.37 9,806 14,695 0.00 00.0 0.00 0.00 0.00 0.00 0.00 0.00 0 9416.00 9,416 85.60 25.96 2913.20 18725.00 2,913 18,725 24.71 5885.00 13,984 9630.00 25,425 EQUIPMNT MATERIAL 9,600 22,085 28,141 1421.87 1.06 0.00 0.00 4,335 4.02 0.15 6.14 2,003 0 272 U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Chlvert LABOR 13577.41 6626.84 27.93 7,205 11273.03 7,205 3.39 0.41 10.53 4741.20 20,204 3,092 24,660 229.89 112.20 0.45 0.09 142 92.59 185 219.30 342 116 0.02 $\begin{smallmatrix}0.51\\122\end{smallmatrix}$ OUTPUT MANHRS 404 0.03 0.07 0.01 8.93 54.38 9.75 0.01 150.00 2.00 EA EELEELEC1 119.00 CY COFGB36C QUANTY UOM CREW ID 1.00 EA SIWSE21 1.00 EA SIWSE21 CODEB3A 1.00 EA EELER19 258.00 SF SIWSE4 475.00 SY ULABA2 237.00 CY 09.06.11. Blectrical Structure S17 shares the control building & generator with S18 1.00 EA 1.00 EA 1.00 EA 1.00 EA MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large USR EL <16119 0002 > Actuator Starter & Remote Cntrls thick, non-woven polypropylene MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY CIV AA <02250 2140 > Geotextile fabric, 120 mil PROJECT C43RES: USR AA <05150 0001 > Slide Gate 6' x 6' SST USR AA <05150 0001 > Weir Gate 6' x 3' SST USR EL <16820 3580 > Stilling well TOTAL Electrical TOTAL Stop Logs USR AA <05548 0611 > Stop Log TOTAL Rip Rap TOTAL Gates 09.06.06. Stop Logs 09.06.07. Rip Rap 09.06.05. Gates Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE 09.06. Gate S17

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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DETAIL PAGE

09. Gated Culvert

17.95 0.17 0.22 0.23 18.10 OTHER TOTAL COST UNIT COST 50586.44 1090.80 126.26 51880.06 1323.70 1323.70 1323.70 50586.44 0.22 17.95 0.23 18.10 1056.00 1056.00 1056.00 0.17 46 51,880 126.26 631 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 41730.00 126.26 631 16.26 81 LABOR EQUIPMNT MATERIAL 00.0 0.00 00.0 0.00 856.00 1,073 1,073 856.00 2,146 42,623 1676.22 0.00 0.00 7.94 0.00 0.00 0.00 0.77 0.00 0.00 0.00 0 1,720 00.0 0 7180.22 7,180 0.00 0.17 0.22 200.00 200.00 46 0.23 1.07 363.20 10.01 61 7,537 200.00 251 130.08 0.05 0.03 0.00 0.00 0.00 0.58 OUTPUT MANHRS 0.01 0.01 0.01 148 0.00 13.89 90.0 75.00 0.29 0.00 13.75 00.0 0.00 0.00 112.50 90.63 84.38 47.50 0.20 TON SIWRRODM4 ACMACEF11 ACMACEF11 ACMACEF11 CODFB10N QUANTY UOM CREW ID 1.00 EA SIWSE7A 68.00 LF ACARC1 ULABC7 N/A N/A N/A 5.00 CY 264.00 SF 5.00 CY 264.00 SF 5.00 CY 1.00 EA 2.00 EA 264.00 SF 1.00 EA 1.00 JB MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill under precast building USR AA <03450 0001 > Precast Concrete Building Note: .9 Note: Material price from Concrete Modular Systems 727-945-1756 MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 ATTN: Frederick Kennedy MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, broom finish USR MC <15743 0001 > Emergency Generator IO Points 4400 > Placing conc, slab on grade, thick, w/crane & bucket USR MC <15743 0001 > Level Control Gate IO Points USR MC <15743 0001 > Upstream Downstream Level 10 Points M RSM AA <03326 0300 > Concrete ready mix, requiar weight 1:3:5 mix 4000 psi USR MC <15743 0001 > Dewatering Gate IO Points TOTAL Equipment Building 09.06.15. Equipment Building MIL AA <02215 2460 > MIL AA <03372 09.06.95. Controls 09.06. Gate S17

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

1323.70

1056.00

0.00

856.00 1,073

0.00

200.00

0.00

0.00

N/A

1.00 EA

CREW ID: NATO1A UPB ID: UP01EA

TIME 09;25:13 AIL PAGE 290	NIT COST	1	795.97	2387.92	0.75	9.13	45682.71	26350.15
TIME 09;	TOTAL COST UNIT COST	 	635.00	1905.00	0.60	7.28	345,683 345682.71	626,350 626350.15
	OTHER		0.00	0.00	0.00	0.00	0	0
	MATERIAL		535.00 671	1605.00	00.0	4.28 182,409	190,457	379,647
ent	EQUIPMNT		0.00	00.00	0.13	0.00	5,562	17,514
er Managem	LABOR	 	100.00	300.00 376	0.47	3.00	149,664	229,188
orida Wate	MANHRS		00.0	0.00	0.01	0.11	4,070	5,977
ineers South Fl t	OUTPUT		0.00	00.00	90.63	30,35		
rmy Corps of Engi rage Reservoir - 30% Submittal 09. Gated Culvert	CREW ID		N/A	N/A	CODBB54	EELER18		
U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert	QUANTY UOM CREW ID	e*	1.00 EA	1.00 EA	34000 LF	34000 LF	1.00 EA	1.00 EA
PROJECT C43RES;			USR MC <15743 0001 > Telemetry To/From Gated Structure	• 16 VHF Data Radios Structure	Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher	· Control Conduit & Cable	TOTAL Controls	TOTAL Gate S17
Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE	09.06. Gate S17		USR MC <15743 0001 >	USR MC <15743 0001 > 16 VHF Data Radios Structure	AF MC <02230 2850 > Excavate utility deep, 12" wide, 'trencher'	USR MC <15743 0001 > Control Conduit	TOTAL	TOTAL

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.07, Gate S18	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
09.07. Gate S18				1 1 1 1 1 1 1					
09.07.03. Concrete									
09.07.03.01. Slab On Grade									
09.07.03.01.01. Base Slab									
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	73.00 CY ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	110.00 SF ACARC1	43.75	0.09	1.65 182	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	6.60 TON SIWRRODM4	14 0.29	13.89	363.20	0.00	963.00	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 ps.	73.00 CY N/A	00.00	00.0	0.00	0.00	126.26	0.00	126.26	126.26
TOTAL Base Slab	1.00 EA		123	2,865	26	15, 665	0	18,556	18556.06
TOTAL Slab On Grade	1.00 EA		123	2,865	26	15,665	0	18,556	18556.06
09.07.03.03. Walls									
M MIL AA <03217 0700 > Reinforcing in place, walls, ± 3 to ± 7	7.57 TON SIWRRODM4	14 0.38	10.67	278.93 2,112	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	68.00 CY N/A	0.00	00.0	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	68.00 CY CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8" high, 4 use, job built plywood	2990.00 SF ACARC2	54.38	330	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL WALLS	1.00 EA		450	9,024	422	18,307	0	27,753	27753.26
09.07.03.07. Elevated Slabs									
09.07.03.07.01. Elevated Slab									
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	730.00 SF ACARC2	61.88	0.10	1.83	0.00	1.14	0.00	2.98	2.98

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

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9.91 30.38 3.42 33.37 1.93 126.26 1326.20 TOTAL COST UNIT COST 11311.68 11311.68 1241.93 126.26 58936.14 12,986 12986.05 1315.14 1315.14 9.91 126.26 1326.20 11,312 126.26 379 30.38 3.42 1,315 1,315 33.37 $\frac{1.93}{139}$ 11,312 58,936 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 00.00 0.00 0 0.00 963.00 3,274 126.26 8,403 963.00 126.26 379 1.02 25.96 1.38 LABOR EQUIPMNT MATERIAL 0.00 43,212 8,403 838 838 10,093 0.00 0.00 0.00 13.44 0.00 4.02 $0.15 \\ 11$ 0.00 0 1,559 129 129 40 40 618 6.12 363.20 2.40 3.39 0.41 1,333 00.0 2,780 2,780 00.0 16.94 437 278.93 437 15,106 0.36 13.89 0.00 00.0 0.13 0.09 0.02 130 130 10.67 0.98 OUTPUT MANHRS 725 37 22 22 00.0 0.29 0.38 00.0 8.13 47.13 22.50 54.38 150.00 3.40 TON SIWRRODM4 0.35 TON SIWRRODM4 COFGB36C QUANTY UOM CREW ID 34.00 CY CLABC20 ULABC7 120.00 SF ACARC2 72.00 SY ULABA2 34.00 CY N/A 3.00 CY 3.00 CY 385.00 CY 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 JB MIL AA <02244 1510 > Base course, crushed stone, 3/4" max size, compacted, 3"D, large M MIL AA <03217 0700 > Reinforcing in place, walls, #3 CIV AA <03138 2150 > Forms in place, 12" w, plywood, 4 use, Beams & girders AA <03372 1600 > Placing conc, elev slabs, over 10" thick, pumped thick, non-woven polypropylene M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi MIL AA <03372 0250 > Placing conc, beams, large, elev, w/crane & bucket CIV AA <02250 2140 > Geotextile fabric, 120 mil TOTAL Erosion Control System TOTAL Elevated Slabs TOTAL Elevated Slab TOTAL Needle Beams 09.07.03.08.01. Needle Beams TOTAL Concrete 09.07.04. Erosion Control System areas TOTAL Beams 09.07.03.08. Beams E E 09.07. Gate S18

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA

CREW ID: NAT01A

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal

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			,	1) 					
us.u/, gate \$18	QUANTY UO	QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
09.07.05. Gates					1	• • • • • • • • • •			1	-
USR AA <05150 0001 > Slide Gate 6' x 6' SST	1.00 EA	SIWSE21	0.03	229.89	13577.41	2913.20 2,913	18725.00	0.00	35215,61	35015 61
USR AA <05150 0001 > Weir Gate 6' x 3' SST	1.00 EA	SIWSE21	0.07	112.20	6626.84	1421.87		00.00	17464.71	
TOTAL Gates	1.00 EA			342	20,204	4,335	28,141	0	52, 680	
09.07.06. Stop Logs										
USR AA <05548 0611 > Stop Log	268.00 SF	SIWSE4	8.93	0.45	27.93	1.06	85.60 22,941	0.00	114.58	114.58
TOIAL Stop Logs	1.00 EA			120	7,485	283	22,941	0	30,708	30708.32
09.07.07. Rip Rap										
MIL AA <02244 1510 > Base course,crushed stone, 3/4" max size, compacted, 3"D, large areas	117.00 CY	COFGB36C	54.38	0.09	3.39 396	4.02	25.96	0.00	33,37 3,904	33,37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene	468.00 SY	ULABA2	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93
MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, 3/8 - 1/4 CY	234.00 CY	CODEB3A	9.75	0.51	10.53	6.14	24.71 5,781	0.00	41.37	41.37
TOTAL Rip Rap	1.00 EA		•	140	3,051	1,975	9,464	0	14,491	14490.84
09.07.11. Electrical										
USR EL <16119 0001 > RIU\MOSCAD	1.00 EA	EELEELEC1	0.03	37.04	1896.48	0.00	2140.00	0.00	4036.48	4795.74
USR EL <16119 0002 > Actuator Starter & Remote Cntrls	2.00 EA	EELEELEC1	0.01	92.59 185	4741.20	0.00	4815.00	0.00	9556.20	11353.73
USR EL <16711 0011 > Meter Connection by Utility	1.00 LS		00.00	0.00	0.00	0.00	0.00	700.00	700.00	831.67
USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6	0.07 MLF	F EELER18	0.55	6.00	165.56	0.00	363.80	0.00	529.36	628.93
RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position	1.00 EA	EELEELEC1	0.40	2.50	128.01	0.00	29.48	0.00	157.49	187.12

CREW ID: NATO1A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.07, Gate S18		QUANTY UOM CREW	M CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
	AF F1. <16672 5730 \ UTh 6t-				 	 	 				
		13.00 EA	EELER19	0.69	3.63	186.79 2,885	00.00	391.89 6,053	0.00	578.68 8,938	687.53
	USR EL <16611 4100 > Compact Fluorescent	7.00 EA	EELER19	1.00	2.50	128.51	0.00	181.90	0.00	310.41	368.80
	USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, otagonal, conc	10.00 EA	EELER15	09.0	10.00	499.44 5,934	85.16	214.00	0.00	798,59	948.81
	MIL EL <16617 1040 > Lighting, poles, one 6' arm, 30' T, roadway, galv steel, rnd, tapered	10.00 EA	EELER15	0.82	7.33	365.89	62.38 741	903.35 10,733	0.00	1331.62 15,821	1582.10
	USR EL <16617 0002 > Lignting, poies, wood, 20' NOTE: Use for Meter Pole	1.00 EA	EELER15	3.00	2.00	99.89	17.03	460.10	0.00	577.02	685,56
	MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, W/ fuse, 600 volt, 3 pole NEMA 1	1.00 EA	EELEELEC1	0.21	4.85	248.57	0.00	514.97	0.00	763.54	907.16
	USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole	13.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
	MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main Lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for Panel L	1.00 EA	BELEELECI	0.12	8.47	433.94	00.0	332.77 395	0.00	766.71 911	910.93
	USR EL <16323 0001 > Nema 4X Stainless steel enci NOTE: Use for Lighting Controller	1.00 EA	BELEELEC1	0.42	2.40	122.79 146	0.00	802.50 953	0.00	925.29	1099.34
	USR EL <16333 1401 > Photo-cell	1.00 EA	EELER19	1.88	1.33	68.30	0.00	128.40	0.00	196.70	233.70
	USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting controller	1.00 EA	ULABC6	0.75	8.00	107.95	9.87	107.00	0.00	224.82	267.11
	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	1430.00 LF	COETR23	33.25	0.11	4.64	4.30	0.00	0.00	8.93 15,179	10.61
	MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, copper, stranded, #12	0.22 MLE	0.22 MLF BELEELEC1	0.14	7.25	371.05 95	0.00	69.02	0.00	440.07	522.84
	MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10	3.24 MLF	3.24 MLF EELEELEC1	0.13	8.00	409.64	0.00	105.93 407	0.00	515.57	612.55

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

09. Gated Culvert

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5.20 6.13 7.19 TOTAL COST UNIT COST 2730.93 56.67 12.97 952.34 84.59 8.66 7.19 6.45 1100.03 5.20 5.08 467.03 615.34 925.88 2298.57 205 47.70 4.38 5.16 6.05 10.92 393.09 517.92 7.29 6.05 142 4.38 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 1049.67 32.53 0.27 3.21 MATERIAL 0.54 321.00 269.11 639 354.06 421 0.91 53,50 64 1.12 0.80 0.27 0.91 LABOR EQUIPMNT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 65.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 632.16 1,164 4.63 415.55 123.98 163.86 17.70 21 15.17 5.14 4.63 4.11 2,335 1248.90 495 49 110 6.17 5.14 44 12.35 0.30 0.09 0.10 2.42 3.20 0.35 0.08 0.15 7.99 OUTPUT MANHRS 0.12 0.10 0.09 0.08 0.08 0.08 0.04 3.38 27.78 25.00 16.67 0.31 0.41 2.89 31.25 31.25 0.31 27.78 20.83 25.00 31.25 1.55 MLF EELEELEC1 0.08 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELECI EELEELEC1 QUANTY UOM CREW ID EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER3 1.00 EA 50.00 EA 2.00 EA 1.00 EA 54.00 EA 90.00 EA 8.00 EA 12.00 EA 6.00 EA 14.00 EA 1.00 EA 1.00 EA 22.00 EA 178.00 EA 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2 Wiring device, receptacie, gnd fault intrpt, 20 amp, duplex WP MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0 Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA MIL EL <16232 2482 > Wiring device, receptacle, gnd MIL EL <16711 0500 > Elec & tel sitewk, 2'x2'x2'-6"
D, hand holes, precast conc,
w/conc cov fault intrpt, 20 amp, duplex USR EL <16153 0010 > Cable Termination #1/0 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0013 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0016 > Cable Termination #16 USR EL <16153 0012 > Cable Termination #6 USR EL <16153 0011 > Cable Termination #4 USR EL <16153 0012 > Cable Termination #6 USR EL <16153 0013 > Cable Termination #8 5510 > USR EL <16232 2483 > MIL EL <16333 <16338 MIL EL 09.07. Gate S18

LABOR ID: C43RES EQUIP 1

13RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

09.07. Gate S18

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert PROJECT C43RES:

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7.83 5.60 10.23 2.55 4.13 5.60 4.13 2.55 10.23 7.83 2.14 2.55 61.38 TOTAL COST UNIT COST 425.73 111.46 612.55 6.59 4.71 8.61 6.59 1.80 51.66 2.148,146 3.47 3.47 2,291 2.14 93.82 515.57 3,414 8.61 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2.18 3.49 1.43 0.57 3.49 0.39 39.80 105.93 702 10.70 0.57 1.20 1.20 2.18 0.57 LABOR EQUIPMNT MATERIAL 13 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0 0 0.00 0 1.41 409.64 2,713 40.96 6,233 1.58 2.28 1.58 1.58 54.01 1,433 122 4.40 314.14 8.00 0.10 0.03 0.04 0.04 0.03 0.10 6.14 0.80 0.09 90.0 60.0 0.03 ~ 0.03 1.05 MANHRS 102 0 46 OUTPUT 11.63 22.50 15.63 10.00 15.63 10.00 32.50 11.63 36.25 0.16 1.24 0.13 1.25 32.50 22.50 32.50 EELEELECI EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 **EELEELEC1 EELEELEC1** EELEELEC1 EELEELEC1 5.57 MLF EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER20 0.07 MLF MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl couplings only, steel rigid galv 254.00 LF 530,00 LF 12.00 EA 2.00 EA couplings only, steel rigid galv 1191.00 LF 90.00 LF 3200.00 LF 1260.00 LF 75.00 LF 900.00 LF 20.00 LF 5.00 LF 70.00 LF 1490.00 LF couplings only, steel rigid galv couplings only, steel rigid galv MIL EL <16018 0580 > Conquit to 15' H,1.5" dia, incl couplings only, steel rigid galv MIL EL <16018 0540 > Conquit to 15' H, 1" dia, incl couplings only, steel rigid galv MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16712 1020 > Conduit, direct burial only, PVC sched 40, 3/4" dia, w/coupling MIL EL <16712 1030 > Conduit, direct burial only, PVC MIL EL <16712 1030 > Conduit, direct burial only, PVC MIL EL <16018 0520 > Conduit to 15' H, 3/4" dia, incl MIL EL <16326 0100 > Panelboard&lq ctr ckt brkr,15 - 50A,bolt-on,10k AIC,1 P,120V MIL EL <16018 0580 > Conduit to 15' H,1.5" dia, incl MIL EL <16018 0540 > Conduit to 15' H, 1" dia, incl RSM EL <16119 0920 > Wire, 600 volt, type THWN-THHN, copper, solid, #14 CIV EL <16153 0320 > Cable termn to 600V, #22-#10, screw type, 12 pt, term blocks NOTE: Use for #14, 3 pr #20, MIL EL <16119 1250 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10 MIL EL <16712 1030 > Conduit, direct burial, PVC sched 40, 1" dia, w/coupling > Conduit, direct burial, PVC
sched 40, 2" dia, w/coupling sched 40, 1" dia, w/coupling sched 40, 1" dia, w/coupling MIL EL <16712 1050

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA ID: NAT01A CREW

U.S. Army Corps of Engineers
C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert PROJECT C43RES:

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84.99 180.11 4.13 1258.36 603.94 1100.03 TOTAL COST UNIT COST 2730.93 522.84 625,11 102.04 214.54 168.87 22292.35 373.99 102.04 18763.03 44,585 71.54 1059.14 508.33 2298.57 1,598 925.88 440.07 3,459 85.88 151.60 180.57 142.13 169 3.47 314.78 85.88 526.15 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 20.33 428.54 293.18 1049.67 293.72 69.02 542 19.57 488 69.67 69.98 44.60 7490.00 17,798 EQUIPMNT MATERIAL 360.59 160.50 19.57 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00 0 215.15 256 11273.03 26,787 LABOR 51.21 630.60 632.16 371.05 2,916 81.93 110.59 394 97.53 66.31 1248.90 868 165.56 66.31 1,654 1,501 154.28 183 219.30 1.00 12.32 12 24.39 6.00 1.60 1.90 0.04 12.35 7.25 1.29 2.16 3.00 1.29 MANHRS 0.46 DUTPUT 1.00 0.08 0.24 0.04 0.08 0.14 0.55 1.94 0.63 0.53 0.01 0.83 1.94 22.50 **EELEELEC1** EELEELECI EELEELECI 0.59 MLF EELEELEC1 EELEELEC1 EELEELEC1 0.16 MLF EELEELEC1 6.62 MLF EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID 0.02 MLF EELER18 EELER19 EELER19 EELER19 1.00 EA 2.00 EA 1.00 EA EA 2.00 EA 21.00 EA EA ΕA 555.00 LF 1.00 EA 1.00 EA 1.00 3.00 1.00 MIL EL <16712 1050 > Conduit, direct burial only, PVC sched 40, 2" dia, w/coupling MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1200 > Wire, 600 volt, type THWN-THHN, MIL EL <16325 4340 > Panelboard assem, 20-20A brkr, main Lugs, 100A, 1pn, 3 wire, 120/240V NOTE: Use for distribution panel L Safety switch, heavy duty, 600 V, 3 pole non fused, 100 A $\,$ MIL EL <16213 0330 > Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6" MIL EL <16181 6310 > Grounding, and conductor bond, $4/0-300~{\rm MCM},~{\rm splice~or~lug},$ Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D CIV EL <16213 2744 > Pull box, ninged, steel, NEWA 12"W x 12"H x 6"D MIL EL <16181 6310 > Grounding, gnd conductor bond, $4/0-300~{\rm MCM}$, splice or lug, MIL EL <16326 0310 > Panelboard&ld ctr ckt brkr,70 100A,bolt-on,10k AIC,1 P,120V MIL EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4 copper, stranded, 1/0 copper, stranded, #12 USR EL <16869 0090 > Lighting Contactor USR EL <16820 3580 > Stilling well MIL EL <16337 1700 > MIL EL <16213 0380 > 09.07, Gate S18

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NAT01A

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

09. Gated Culvert

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615.03 6.13 55.75 TOTAL COST UNIT COST 6295.07 1544.06 675.49 233.70 187.12 907.16 5.14 54.64 831.67 448.57 164.83 189.42 5298.43 6,295 517.66 2,460 1299.60 3,088 568.55 196.70 700.007 157.49 763.54 1,814 377.55 449 159.43 758 4.33 45.99 989 785 46.92 OTHER 0.00 0.00 0.00 0.00 0.00 700.007 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3210.00 354.06 1,683 871.23 2,070 363.73 0.00 514.97 LABOR EQUIPMNT MATERIAL 29.48 107.00 53.50 30.82 9.68 26.75 0.54 0.21 191 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 2088.43 163.59 428.38 1,018 204.82 4.11 68.30 0.00 128.01 152 270.55 321 15.17 72 37.24 105.93 4.63 248.57 591 111.98 798 503 704 75.69 3.19 8.33 4.00 4.85 4.00 1.33 0.00 2.50 5.26 4.23 0.09 OUTPUT MANHRS 0.73 0.08 0.30 0.04 0.31 0.30 0.25 1.88 0.00 0.40 0.21 0.48 0.59 3.38 1.38 31.25 0.63 27.78 4.00 EA EELEELEC1 1.00 EA EELEELECI EELEELEC1 2.00 EA EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID 1.00 EA EELER18 EELER19 1.00 EA EELER19 EELER19 EELER19 MSHMQ20 MSHMQ20 EELER19 4.00 EA 2.00 EA 1.00 EA 2.00 EA 1.00 EA 6.00 EA 128.00 EA 12.00 EA 4.00 EA 1.00 LS MIL EL <16313 9650 > Motor starter & cont, NEWA 1, size 1, comb, rev, w/disc switch MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position MIL EL <16234 0160 > Wiring device, concealed, switch, 120 volt, 20 amp, SPSI MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H x 12"D, sheet met, db1 dr, NEMA AF EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, NOTE: Use for RTU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <13810 0001 > Limit and Rotary Switches USR EL <16153 0016 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #14 USR EL <13810 0002 > Push Button Stations USR EL <13810 5471 > Surge Suppressor conduit, etc. USR EL <16333 1401 > Photo-cell 09.07. Gate S18

UPB ID: UP01EA

NAT01A

CREW ID: 1

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.07. Gate S18		QUANTY UOM CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
			1	1		1	1			
	MIL EL <16617 3000 > Poles, area lighting, 10' tall, round, 3" OD, al, non-tapered	2.00 EA EELER15	2.88	2.09	104.23	17.77	497.55	0.00	619.55	736.09
	MIL EL <16617 3500 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, tapered	2.00 EA EELER15	0.89	6.76	337.46	57.54 137	371.08 882	0.00	766.07	
	USR EL <16617 3300 > Light Pole Foundation	4.00 EA EELER15	0.75	8.00	399,55	68.12	246.10 1,170	0.00	713.77	848.03
	USR EL <16181 0105 > Ground Rod 3/4" x 20' Long amp, enclosed 600 volt, 3 pole	7.00 EA BELEELECI	0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.58
	MIL EL <16181 6020 > Grounding, laid in trench, copper, bare stranded, 2/0	0.84 MLF EELER18	0.35	9.43	260.16 258	0.00	1134.20	00.00	1394.36	1656,64
	USR EL <16865 0125 > Level Gage	1.00 EA EELER19	0.16	16.13 16	829.11 985	0.00	535.00	0.00	1364.11	1620.70
	MIL EL <16611 3030 > Surface mtd fluor fxtr, 1'x4', two 40M, drop opal lens NOTE: Use for type A (PF8)	4.00 EA EELER22	3.25	1.43	67.39	0.00	65.16	0.00	132,55	157.49
	USR EL <16611 0001 > Ltg fxtr, 175w Metal Halide (EH-1)	2.00 EA EELEELEC2	0.72	2.76	141.33	0.00	454.75	0.00	596.08	708.21
	NOTE: Use for fixture type B									
ω	B USR EL <16622 3010 > Ltg fxtr, 175w Metal Hallde (EH1) NOTE: Use for fixture type C	2.00 EA EELEELEC2	0.72	2.76	141.33 336	0.00	454.75 1,081	0.00	596.08 1,416	708.21
	MIL EL <16622 3060 > Ltg, HID fxtr,250W security, ext wall NOTE: Use for type D (250w Metal Halide EH9)	4.00 EA EELER19	1.08	2.33	119.55	0.00	322.07 1,531	00.0	441.62	524.68
	MIL EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12)	8.00 EA EELER22	2.88	1.62	76.18 724	0.00	151.62	0.00	227.80	270.65
	MIL EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	3320.00 LF COETR23	33.25	0.11 358	4.64	4.30 16,951	0.00	0.00	8.93 35,240	10.61
	MIL EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4	0.03 MLF EELEELEC1	0.07	15.15	775.83	0.00	448.33	0.00	1224.16	1454.43
	MIL EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8	0.80 MLF EELEELEC1	0.10	10.00	512.05 487	0.00	182.44	0.00	694.48	825.12
LABOR ID: C43RES	EQUIP ID: C43RES	Currency in DOLLARS					CREW 1	CREW ID: NAT01A	. UPB ID: UP01EA	UP01EA

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

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09. Gated Culvert

12.97 TOTAL COST UNIT COST 400.49 25083.87 300,792 300791.76 17.95 0.17 0.22 0.23 18.10 4066.14 1099.34 50586.44 1090.80 126.26 50586.44 50,586 3422.39 337.08 10.92 25,084 925.29 17.95 0.17 126.26 631 0.23 21112.59 57 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,663 0.00 0.00 0.00 0.00 0.00 18725.00 22,247 41730.00 3107.28 3,692 EQUIPMNT MATERIAL 802.50 0.51 727.60 126.26 631 0.00 0.00 00.0 0.00 125,345 1676.22 0.00 0.00 323.02 0.00 0.00 0.00 0.00 0.00 0.00 7.94 0.77 0.00 00.0 27,000 LABOR 7180.22 7,180 294.28 2064.57 122.79 1.07 315.11 0.00 10.01 0.23 146,783 0.17 46 0.22 57 5.75 0.15 39.68 130,08 6.15 2.40 0.00 0.01 MANHRS 0.03 2,563 0.05 13.89 0.58 0.01 0 0.01 OUTPUT 90.0 0.17 90.0 0.16 0.42 00.0 0.29 13.75 90.63 16.67 75.00 112.50 84.38 47.50 0.16 MLF EELEELEC1 EELEELEC1 **EELEELEC1** 0.20 TON SIWRRODM4 ACMACEF11 ACMACEF 11 ACMACEF11 CODFBION QUANTY UOM CREW ID EELER19 1.00 EA SIWSE7A 68.00 LF ACARC1 ULABC7 N/A 30.00 EA 1.00 EA 1.00 EA 1.00 EA 5.00 CY 5.00 CY 264.00 SF 264.00 SF 264.00 SF Č 1.00 EA 5.00 MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill USR AA <03450 0001 > Precast Concrete Building Note: USR EL <16119 0990 > Wire, 600 volt, type THWN-THHN, MIL EL <16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 volt, 3 pole Note: Material price from Concrete Modular Systems 727-945-1756 MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7 ATTN: Frederick Kennedy MIL AA <03396 0010 > Finishing floors, monolithic, screed finish MIL AA <03396 0100 > Finishing floors, monolithic, float finish MIL AA <03396 0150 > Finishing floors, monolithic, MIL AA <03372 4400 > Placing conc, slab on grade, thlck, w/crane & bucket M RSM AA <03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi USR EL <16513 2015 > Emergency Generator 20 KW USR EL <16153 0010 > Cable Termination #1/0 USR EL <16323 0001 > Terminal Box TOTAL Electrical 09.07.15. Equipment Building 09.07. Gate S18

UPB ID: UP01EA

ID: NAT01A

CREW

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

09.07, Gate S18

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal PROJECT C43RES:

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09. Gated Culvert

51880.06 1323.70 0.75 9.13 OTHER TOTAL COST UNIT COST 1323.70 1323.70 1323.70 795.97 2387.92 344,359 344359.01 866,833 866832.51 51,880 1056.00 1056.00 1056.00 1056.00 635.00 1905.00 0.60 7.28 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,663 0 856.00 1,073 856.00 1,073 856.00 1,073 856.00 1,073 1605.00 2,012 00.0 EQUIPMNT MATERIAL 4.28 42,623 535.00 671 471,204 189,384 1,720 0.00 0.00 0.00 0.00 0.00 0.00 0.13 0.00 5,562 43,052 LABOR 200.00 3.00 7,537 200.00 251 200.00 300.008 0.47 100.00 200.00 251 125 149,413 350,913 251 0.00 0.00 0.00 0.11 8,145 148 0.00 0 0.00 0.00 OUTPUT MANHRS 0.01 4,070 00.0 0.00 90.63 30.35 00.0 0.00 00.0 0.00 QUANTY UOM CREW ID 34000 LF EELER18 CODBB54 N/A N/A N/A 1.00 EA N/A 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 34000 LF 1.00 JB 1.00 EA 1.00 EA USR MC <15743 0001 > Emergency Generator IO Points MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher USR MC <15743 0001 > Level Control Gate IO Points USR MC <15743 0001 > Dewatering Gate IO Points USR MC <15743 0001 > Upstream Level IO Points Points USR MC <15743 0001 > Telemetry To/From Gated Structure USR MC <15743 0001 > Control Conduit & Cable under precast building TOTAL Equipment Building USR MC <15743 0001 > 16 VHF Data Radios Structure TOTAL Gate S18 TOTAL Controls 09.07.95. Controls ΑF

EQUIP ID: C43RES

LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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09.08. Gate S19	QUANTY UOM	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	JNIT COST
09.08. Gate S19) 	; ; ; ; ;			1			
09.08.03. Concrete										
09.08.03.01. Slab On Grade										
09.08.03.01.01. Base Slab										
MIL AA <03372 4600 > Placing conc, slab on grade, over 6" thick, direct cnute	60.00 CY	ULABC6	20.63	0.29	3.93	0.36	0.00	0.00	4.28	4.28
MIL AA <03170 3060 > Forms in place, SOG, edge forms, wood, over 12", 4 use	110.00 SF	ACARC1	43.75	0.09	1.65	0.00	0.83	0.00	2.49	2.49
M MIL AA <03217 0600 > Reinforcing in place, slab on grade, #3 to #7	5.43 TON	SIWRRODM4	0.29	13.89	363.20	0.00	963.00 5,229	0.00	1326.20	1326.20
M RSM AA <03326 0300 > Concrete ready mix, regular weight, 4000 psi	60.00 CY	N/A	0.00	0.00	0.00	00.00	126.26	0.00	126.26	126.26
TOTAL Base Slab	1.00 EA		i	103	2,389	22	12,896	0	15,307	15307.33
TOTAL Slab On Grade	1.00 EA		i	103	2,389	22	12,896	0	15,307	15307.33
09.08.03.03. Walls										
M MIL AA <03217 0700 > Reinforcing in place, walls, #3 to #7	6.12 TON SIWRRODM4	SIWRRODM4	0.38	10.67	278.93	0.00	963.00	0.00	1241.93	1241.93
M RSM AA <03326 0300 > Concrete ready mix, regular weignt, 4000 psi	55.00 CY	N/A	0.00	0.00	0.00	0.00	126.26	0.00	126.26	126.26
MIL AA <03372 5100 > Placing conc, walls, 12" thick, pumped	55.00 CY	CLABC20	13.75	0.58	10.01	6.21	0.00	0.00	16.22	16.22
MIL AA <03182 2150 > Forms in place, walls, below gr, to 8' nigh, 4 use, job built plywood	2320.00 SF	ACARC2	54.38	0.11 256	2.08	0.00	0.81	0.00	2.90	2.90
TOTAL Walls	1.00 EA		i	353	7,093	342	14,724	0	22,159	22158.97
09.08.03.07, Elevated Slabs 09.08.03.07.01. Elevated Slab										
CIV AA <03150 1500 > Forms in place, elev slab, flat plate plywd 15'-20' nign 4 use	612.00 SF	ACARC2	61.88	0.10	1,83	0.00	1.14	0.00	2.98	2.98

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

U.S. Atmy Corps of Engineers
PROJECT C43Rbs: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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AF AA <03396 0010 > Pinianing floors, monolithic, 612.00 SF ACBACEFII 112.50 5 5 5 6 10 1	612.00 SF 20.00 CY 20.00 CY								
### 100 CY CLABC20 22.50 7 ### 100 CY CLABC20 22.50 7 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00 0.00 ### 100 CY N/A 0.00	ver 20.00 CY 20.00 CY		0.01	0.17	0.00	00.0	0.00	0.17	0.17
ter ready mix, regular orcing in place, slab on ced Slabs red Slabs red slabs orcing in place, walls, #3 orcing in place, #3 orc	20.00 CY	22.50	0.36	6.12	3.80	0.00	0.00	9.91	9.91
red Slab red Slab red Slabs 1.00 EA	ü	00.00	00.00	0.00	0.00	126.26	0.00	126.26	126.26
1.00 EA 1.00			13.89	363.20 726	0.00	963.00 1,926	0.00	1326.20	1326.20
anns pams pricing in place, walls, #3 pricing in place, #3 p	1.00 EA	,	100	2,076	76	5,152	0	7,303	7303.44
Ducting in place, walls, #3 Octa TON SIMRRODM4 Octor December	1.00 EA	,	100	2,076	76	5,152	0	7,303	7303.44
Drcing in place, walls, #3 O.24 TON SIMRRODM4 O.38 10.67 2 te ready mix, regular 2.00 CY N/A O.00									
recing in place, walls, #3 0.24 TON SIWRRODM4 0.38 3 10.67 2.4 Good psi 2.4 Good psi 3.4 Good psi 3.5 Good psi 3.6 Good psi 4.6 Food psi 4.7 Edward 1.00 Food psi 4.7 Edward 1.00 Food psi 5.4 Good psi 6.00									
te ready mix, regular 2.00 CY N/A 9.00	##		10.67	278.93	0.00	963.00 231	0.00	1241.93	1241.93
in place, 12" w, plywood, 110.00 SF ACARC2 47.13 2 114	2.00 CY	0.00	0.00	00.00	0.00	126.26	0.00	126.26	126.26
in place, 12" w, Plywood, 10.00 SF ACARC2 47.13 14 14 15 19 19 19 19 19 19 19 19 19 19 19 19 19	2.00 CY	8.13	0.98	16.94	13.44	0.00	0.00	30.38	30.38
Beams 1.00 EA 1.99 EA 1.00 EA	110.00 SF	47.13	0.13	2.40	0.00	1.02	0.00	3.42	3.42
1.00 EA 1.00 EA 1.00 EA 1.00 EA 574 1 1.00 EA 574 1 1.00 EA 574 1 1.00 EA 5.00 CY COFGB36C 54.38 29	1.00 EA	•	19	365	27	595	0	886	987.68
course, crushed stone, 3/4" 1.00 EA 574 1 574 1 1.20 EA 5.4 1 5.74 1 5.74 1 5.74 1 5.74 1 5.74 1 5.74 1	1.00 EA	•	19	365	27	595	0	886	987.68
course,crushed stone, 3/4" 0.09 Lze, compacted, 3"D, large 315.00 CY COFGB36C 54.38 29		•	574	11,923	466	33,368	0	45,757	45757.42
stone, 3/4" 0.09 3"D, large 315.00 CY COFGB36C 54.38 29									
areas	3/4" .arge 315.00 CY	54.38	0.09	3.39	4.02	25.96	0.00	33.37	33.37
CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene 58.00 SY ULABA2 150.00 1	58.00 SY	150.00	0.02	0.41	0.15	1.38	0.00	1.93	1.93

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Calivert PROJECT C43RES:

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33.37 1.93 10623.19 41.37 TOTAL COST UNIT COST 61871.21 61871.21 114.58 23374.99 15481.66 628.93 187.12 11251.31 831.67 UPB ID: UP01EA 61871.21 61,871 10,623 114.58 23,375 9470.00 61,871 23,375 33.37 1.93 41.37 4029.48 700.00 529.36 157.49 15,482 CREW ID: NATO1A OTHER 0.00 0 0 0.00 0.00 0.00 0.00 0.00 0.00 700.007 0.00 0.00 0 85.60 17,462 25.96 1.38 2140.00 363.80 28 8,257 5826.40 28890.00 5,826 28,890 24.71 10,112 4815.00 5,721 29.48 MATERIAL 28,890 00.0 EQUIPMNT 5,826 1.06 0.00 0.00 0.00 0.00 0.00 1,276 4.02 0.15 6.14 215 2,110 LABOR 27.93 5,697 3.39 10.53 1,091 5,697 0.41 3,260 1889.48 2,245 4655.00 165.56 128.01 152 459.77 27154.81 460 27,155 27,155 0.00 0.45 0.09 0.02 36.90 6.00 2.50 30 460 0.51 90.91 0.00 MANHRS 91 150 OUTPUT 54.38 0.02 8.93 9.75 0.03 0.01 0.00 0.55 0.40 150.00 Currency in DOLLARS 1.00 EA EELEELEC1 EELEELEC1 1.00 EA EELEELEC1 COFGB36C QUANTY UOM CREW ID 1.00 EA SIWSE21 CODEB3A 0.07 MLF EELER18 204.00 SF SIWSE4 500.00 SY ULABA2 125.00 CY 250.00 CY 1.00 EA 1.00 JB 1.00 EA 1.00 EA 1.00 EA 1.00 LS USR EL <16119 0002 > Actuator Starter & Remote Chtrls MIL AA <02244 1510 > Base course, crushed stone, 3/4" max size, compacted, 3"D, large RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position thick, non-woven polypropylene MIL AA <02270 1000 > Rip-rap, random pieces, dumped from truck, $3/8\,$ - $1/4\,$ CY USR EL <16711 0011 > Meter Connection by Utility CIV AA <02250 2140 > Geotextile fabric, 120 mil USR EL <16181 5999 > Grounding, laid in trench, copper, bare stranded, #6 USR AA <05150 0001 > Slide Gate 10' \times 6' SST TOTAL Erosion Control System USR EL <16119 0001 > RTU\MOSCAD TOTAL Stop Logs USR AA <05548 0611 > Stop Log TOTAL Rip Rap TOTAL Gates EQUIP ID: C43RES 09.08.11. Electrical 09.08.06. Stop Logs 09.08.07. Rip Rap 09.08.05. Gates LABOR ID: C43RES 09.08. Gate S19

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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Will EL cledit 4100 Compact Floorescent 7.00 EA ELERIS 0.65 3.65 128.51 0.00 6.033 0.00 3.91.89 0.00 3.92 0.00 0.59 0.00 0.0	יייייי פמרת טוט		QUANTY UOM CREW	M CREW ID	TUTTUO	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST	COST UNIT COST
7.00 EA EELERIS 1.00 18 128.51 0.00 131.90 0.00 2,552 10.00 EA EELERIS 0.60 10.00 499.44 85.16 214.00 0.00 798.59 10.00 EA EELERIS 0.62 10.00 499.44 85.16 214.00 0.00 798.59 10.00 EA EELERIS 0.82 7.33 365.89 62.38 903.35 0.00 1331.62 1.5,821 1.00 EA EELERIS 0.21 4.85 248.57 0.00 54.79 0.00 577 02 686 11.00 EA EELERISCI 0.21 4.85 248.57 0.00 514.97 0.00 766.71 1.00 EA EELERISCI 0.12 2.6 12.78 0.00 133.75 0.00 766.71 1.00 EA EELERISCI 0.12 2.40 122.79 0.00 322.77 0.00 766.71 1.00 EA EELERISCI 0.12 8.47 433.94 0.00 133.75 0.00 176.71 1.00 EA EELERISCI 0.12 8.47 433.94 0.00 128.40 0.00 128.40 0.00 17.09 17.09 17.09 17.00 EA EELERISCI 0.12 8.47 433.94 0.00 133.77 0.00 17.09 17.09 17.00 17.00 EA EELERISCI 0.12 8.47 433.94 0.00 128.40 0.00 17.09 17.09 17.00 17.00 EA EELERISCI 0.12 8.47 433.94 0.00 128.40 0.00 17		EL <16622 5230 > HID fxtr, floodligr press sodium lamp, duty	13.00 EA		0.69	3.63	186.79	0.00	391.89 6,053	0.00	578.68 8,938	687.53
10.00 EA EELERIS 0.60 100 5,934 1,012 2,543 0.00 1331.62 1.00 EA EELERIS 0.82 7,33 365,89 62.38 903.35 0.00 1331.62 1.10 EA EELERIS 3.00 2.00 99.89 17.03 460.10 0.00 577.02 90.79 13.00 EA EELERIS 3.00 2.00 102.41 0.00 133.75 0.00 575.89 0.00 133.75 0.00 575.89 1.100 EA EELEELECI 0.21 4.85 248.57 0.00 612 0.00 236.16 1.100 EA EELEELECI 0.12 8.47 433.94 0.00 332.77 0.00 766.71 1.100 EA EELEELECI 0.12 8.47 433.94 0.00 332.77 0.00 766.71 1.100 EA EELEELECI 0.12 8.47 433.94 0.00 9553 0.00 925.29 1.100 EA EELEELECI 0.42 2.40 122.79 0.00 9553 0.00 925.29 1.100 EA EELEELECI 0.75 8.00 107.95 9.87 107.00 0.00 224.87 1.100 EA EELEELECI 0.14 4.64 4.30 0.00 128.40 0.00 226.7 1.100 EA EELEELECI 0.15 8.00 107.95 9.87 107.00 0.00 224.87 1.100 EA UABC6 0.75 8 0.01 128 7.301 0.00 128.40 0.00 156.70 1.100 EA EELEELECI 0.14 7.878 7.301 0.00 6.00 8.93 1.10 1.100 0.10 1.100 EA EELEELECI 0.14 7.878 7.301 0.00 6.00 128.93 1.10 1.100 0.100 0.			7.00 EA		1.00	2.50	128.51	0.00	181.90	0.00	310.41	368.
1.00 EA EELERIS 0.82 7.33 365.89 62.38 903.35 0.00 1331.62 1.00 EA EELERIS 3.00 2.00 99.89 17.03 460.10 0.00 577.02 686 13.00 EA EELERECI 0.21 4.85 248.57 0.00 541.97 0.00 763.54 13.00 EA EELEELECI 0.50 2.60 102.41 0.00 133.75 0.00 766.71 1.00 EA EELEELECI 0.12 8.47 433.94 0.00 332.77 0.00 766.71 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 332.77 0.00 925.29 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 332.77 0.00 925.29 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 332.77 0.00 925.29 1.00 EA EELEELECI 0.42 2.40 122.79 0.00 325.89 0.00 224.82 1.00 EA ELEELECI 0.42 2.40 122.79 0.00 196.70 0.00 224.82 1.00 EA ELEELECI 0.14 4.64 4.30 0.00 0.00 0.00 15.179 0.22 MLF EELEELECI 0.14 7.25 371.05 0.00 69.02 0.00 15.179 0.22 MLF EELEELECI 0.13 2.60 400.64 0.00 105.93 0.00 1.98.20 0.195.70 0.00 0.195.70 0.195.70 0.105.70 0.195		USR EL <16617 0001 > Light pole foundation 43' tall, round, 3" OD, otagonal, conc			0.60	10.00	499.44 5,934	85.16	214.00	0.00	798.59	948.
1.00 EA BELERIS 1.00 EA BELERIS 1.00 EA BELEBLECT 1.00 EA BELBLECT 1.00 EA BEL		<pre><16617 1040 > Lighting, poles, one 6' arm, T, roadway, galv steel, rnd, tapered</pre>	10.00 EA		0.82	7.33	365.89	62.38	903.35 10,733	0.00	1331.62 15,821	1582.
13.00 EA EELEBLECI 0.21		USR EL <16617 0002 > Lignting, poles, wood, 20' NOTE: Use for Meter Pole	1.00 EA		3.00	2.00	99.89	17.03	460.10	0.00	577.02	685
13.00 EA EELEELECT 0.50 26 1,582 0.00 2,066 0.00 3,648 3,648 1.00 EA EELEELECT 0.12 8.47 433.94 0.00 332.77 0.00 766.71 911 1.00 EA EELEELECT 0.42 2.40 122.79 0.00 802.50 0.00 925.29 1.00 EA ULABC6 0.75 8.00 107.95 9.87 107.00 0.00 224.82 1.00 EA ULABC6 0.75 8 0.01 4.64 4.30 0.00 0.00 15,179 15,179 0.22 MLF EELEELECT 0.14 7.25 371.05 0.00 69.02 0.00 440.07 1,982 4.30 0.00 105.93 0.00 15,179 0.00 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.00 0.15,179 0.1			1.00 EA		0.21	4.85	248.57	0.00	514.97	0.00	763.54	907.
1.00 EA EELEELECI 0.12 8.47 433.94 0.00 332.77 0.00 766.71 911		20' Lo			0.50	2.00	102.41	0.00	133.75	0.00	236.16	280.
1.00 EA EELEELECI 0.42 2.40 122.79 0.00 802.50 0.00 925.29 1 1.00 EA EELEELECI 0.42 2 146 0.00 128.40 0.00 1,099 1 1.00 EA ULABC6 0.75 8.00 107.95 9.87 107.00 0.00 224.82 1430.00 LF COETR23 33.25 154 7,878 7,301 0.00 69.02 0.00 440.07 0.22 MLF EELEELECI 0.14 2.5 371.05 0.00 69.02 0.00 440.07 0.12 3.24 MLF EELEELECI 0.13 2.6 1,574 0.00 105.93 0.00 515.57 0.98 0.00 1,982		MIL EL <16325 4320 > Panelboard assem, 12-20A brkr, main lugs, 100A, 1ph, 3 wire, 120/240V NOTE: Use for Panel L	1.00 EA		0.12	8.47	433.94	0.00	332,77 395	0.00	766,71	910.
1.00 EA EELER19 1.88 1.33 68.30 0.00 128.40 0.00 196.70 234 1.00 EA ULABC6 0.75 8 107.05 9.87 107.00 0.00 224.82 1430.00 LF COETR23 33.25 154 7.878 7.301 0.00 69.02 0.00 440.07 0.22 MLF EELEELECT 0.14 2.5 371.05 0.00 69.02 0.00 440.07 3.24 MLF EELEELECT 0.13 2.6 1.574 0.00 105.93 0.00 515.57 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19		teel	1.00 EA		0.42	2.40	122.79	0.00	802.50	0.00	925.29 1,099	1099.
1.00 EA ULABC6 0.75 8.00 107.95 9.87 107.00 0.00 224.82 1430.00 LF COETR23 33.25 154 7,878 7,301 0 0.00 69.02 0.00 440.07 0.22 MLF EELEELECT 0.14 2 95 0 00 105.93 0.00 515.77 0 1,982 33.24 MLF EELEELECT 0.13 26 1,574 0 0 407 0 15,982 1,982		USR EL <16333 1401 > Photo-cell	1.00 EA		1.88	1.33	68.30	0.00	128.40	0.00	196.70	233.
1430.00 LF COETR23 33.25 154 7,878 7,301 0.00 0.00 8.93 0.22 MLF EELEELECT 0.14 2 95 0.00 69.02 0.00 440.07 3.24 MLF EELEELECT 0.13 26 1,574 0.00 105.93 0.00 515.57		USR EL <03000 0001 > Concrete foundation NOTE: Use for lighting Controller	1.00 EA		0.75	8.00	107.95	9.87	107.00	0.00	224.82 267	267.
0.22 MLF EELEELECI 0.14 2 95 0.00 69.02 0.00 440.07 112 0.32 MLF EELEELECI 0.13 26 1,574 0 407 0 1,982		EL <02230 4020 > Excavate utility tr qeep, 24" wide, 40 trencher	1430.00 LF		33.25	0.11	4.64	4.30	0.00	0.00	8.93	10.1
8.00 409.64 0.00 105.93 0.00 515.57 3.24 MLF EELEELECI 0.13 26 1,574 0 407 0 1,982		EI	0.22 MLE		0.14	7.25	371.05	00.0	69.02	0.00	440.07	522.8
		MIL EL <16119 1256 > Wire, 600 volt, type THWN-THHN, copper, stranded, #10	3.24 MLE	F EELEELEC1	0.13	8.00	409.64	0.00	105.93	0.00	515.57	612.

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

09.08. Gate S19

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

09. Gated Culvert

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5.20 56.67 6.13 7.19 12.97 8.66 7.19 6.45 952.34 467.03 84.59 TOTAL COST UNIT COST 1100.03 2730.93 615.34 925.88 2298.57 517.92 4.38 6.05 10.92 393.09 934 801.57 952 71.20 7.29 101 5.43 552 OTHER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.91 1049.67 32.53 0.27 0.54 321.00 269.11 639 354.06 421 53.50 1.12 0.80 LABOR EQUIPMNT MATERIAL 0.91 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 0.00 65.02 0.00 0.00 0.00 632.16 1,164 4.63 5.14 7.71 415.55 123.98 163.86 17.70 21 6.17 5.14 4.63 495 110 1248.90 12.35 0.30 7.99 2.42 3.20 0.35 MANHRS 0.08 60.0 0.10 0.15 0.12 0.10 0.09 3.38 31.25 25.00 OUTPUT 0.08 0.04 27.78 16.67 0.31 0.41 2.89 0.31 20.83 25.00 27.78 1.55 MLF EELEELECT EELEELEC1 EELEELEC1 0.08 MLF EELEELEC1 EELEELEC1 EELEELEC1 QUANTY UOM CREW ID EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER19 EELER3 1.00 EA 50.00 EA EA 8.00 EA 12.00 EA ΕA 2.00 EA 1.00 EA 6.00 EA 1.00 EA 14.00 EA 22.00 EA 00.06 1.00 0620 > Contactor, lighting, 30 amp, 600 volt 4 pole, electrically held NOTE: Use for LC1 & LC2 USR EL <16232 2483 > Wiring device, receptacle, gnd fault intrpt, 20 amp, duplex WP MIL EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranded, #6 MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R gna MIL EL <16711 0500 > Elec & tel sitewk, $2^{1}x2^{1}x2^{1}-6^{n}$ D, hand holes, precast conc, MIL EL <16232 2482 > Wiring device, receptacle, gn fault intrpt, 20 amp, duplex USR EL <16153 0010 > Cable Termination #1/0 copper, stranded, 1/0 USR EL <16153 0014 > Cable Termination #12 USR EL <16153 0013 > Cable Termination #10 USR EL <16153 0012 > Cable Termination #6 9# 8 #= USR EL <16153 0011 > Cable Termination #4 USR EL <16153 0012 > Cable Termination USR EL <16153 0013 > Cable Termination 5510 > MIL EL <16333 MIL EL <16338

5.20

4.38

0.00

0.27

0.00

4.11 2,335

0.08

31.25

EELER19

478.00 EA

5.08

4.27

0.00

0.16

0.00

0.08

31.25

EELER19

54.00 EA

USR EL <16153 0016 > Cable Termination #16

EQUIP ID: C43RES

LABOR ID: C43RES

USR EL <16153 0014 > Cable Termination #12

Currency in DOLLARS

UPB ID: UP01EA

NATOIA

CREW ID:

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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0.06 3.28 0.00 1.43 0.00 16 989 0 433 0.00 0.09 4.40 0.00 2.18 0.00 0.10 5.12 0.00 3.49 0.00 0.03 1.58 0.00 2.156 0.00 0.04 2.28 0.00 1,794 0.00 0.04 2.28 0.00 1,794 0.00 0.04 2.28 0.00 1,794 0.00 24 1,433 0.00 1,794 0.00 0.03 1.58 0.00 1,794 0.00 0.03 1.685 0.00 1,794 0.00 0.03 1.685 0.00 1,794 0.00 0.03 1.685 0.00 1.794 0.00 0.03 1.788 0.00 0.57 0.00 0.03 1.71 0.00 0.39 0.00 0.03 1.789 0.00 0.00 0.03 1.794 0.00 0.00 1.05 54.01 0.00 0.57 0.00 1.05 54.01 0.00 1,004 0.00 2 0.00 0.00 0.00	09.08. Gate S19			QUANTY UOM	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	TIN
Hai, incl Hai, incl		MIL EL <16018 0520 > Cc	3/4" dia, teel rigid		EELEELEC1	15.63	0.06	3.28 989	0.00	1.43	0.00	4.71	5.60
dia, incl. L, PVC L,		MIL EL <16018 0540 > Cc	1" dia, inci teel rigid galv		EELEELEC1	11,63	0.09	4.40	0.00	2.18	0.00	6.59	
Upting 3200.00 LF EELEELECI 32.50 99 5,990 0.00 0.57 0.00 0.991 1.990 0.00 0.57 0.00 0.991 1.990 0.00 0.57 0.00 0.991 1.990 0.00 0.91 0.00 0.991 1.990 0.00 0.991 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 1.990 0.00 0.991 0.00		MIL EL <16018 0580 > Cc			EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8.61	10.23
L, PVC Dupling 1260.00 LF EELEELEC1 22.50 56 3,407 0.00 1.20 0.00 right and 1260.00 LF EELEELEC1 15.53 5.6 3,407 0.00 1.20 0.00 right agalv 75.00 LF EELEELEC1 22.50 0.04 2.28 0.00 1.20 0.00 upling 900.00 LF EELEELEC1 22.50 0.03 1.58 0.00 0.57 0.00 upling 900.00 LF EELEELEC1 10.00 0.10 5.12 0.00 3.49 0.00 dia, incl right agalv 20.00 LF EELEELEC1 10.00 0.10 5.12 0.00 3.49 0.00 lonly, PVC 0.00 LF EELEELEC1 11.63 0.03 1.41 0.00 0.39 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.39 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.39 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.39 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.39 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.39 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.57 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.57 0.00 lonly, PVC 0.00 LF EELEELEC1 32.50 0.03 1.41 0.00 0.57 0.00 lonly, PVC 0.00 LF EELEELEC1 0.16 0.14 0.00 0.57 0.00 lonly, PVC 0.00 LF EELEELEC1 0.16 0.14 0.00 0.59 0.00 lonly, PVC 0.00 LF EELEELEC1 0.16 0.14 0.00 0.59 0.00 lonly, PVC 0.00 DF EELEELEC1 0.15 0.00 0.55 0.00 0.55 0.00 lonly, PVC 0.00 DF EELEELEC1 0.15 0.00 0.55 0.00 0.55 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.55 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.50 0.00 0.50 0.00 lonly, PVC 0.00 0.50 0.50 0.50 0.50 0.00 0.00 0.50 0.00 0.50 0.00 0.00 0.50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		MIL EL <16712 1030 > Cc	rial, PVC //coupling		EELEELEC1	32.50	0.03	1.58 5,990	0.00	0.57	0.00	2.148,146	
rigid galv 75.00 LF EELEELECI 15.63 5 292 0.00 1.43 0.00 uppling 530.00 LF EELEELECI 22.50 24 1,433 0.00 1.20 0.00 uppling 530.00 LF EELEELECI 22.50 24 1,433 0.00 1.20 0.00 uppling 900.00 LF EELEELECI 32.50 28 1,685 0.00 0.57 0.00 dis, incl rigid galv 20.00 LF EELEELECI 10.00 28 1,685 0.00 3.49 0.00 dis, incl rigid galv 20.00 LF EELEELECI 10.00 2 122 0.00 3.49 0.00 lia, incl rigid galv 5.00 LF EELEELECI 11.63 0.09 4.40 0.00 2.18 0.00 tonly, PVC coupling 70.00 LF EELEELECI 32.50 28 1,685 0.00 0.39 0.00 tonly, PVC coupling 70.00 LF EELEELECI 32.50 0.03 1.41 0.00 0.39 0.00 tonly, PVC coupling 1490.00 LF EELEELECI 32.50 0.03 1.58 0.00 1.004 0.00 tonly, PVC coupling 1490.00 LF EELEELECI 32.50 0.03 1.58 0.00 1.004 0.00 tonly, PVC coupling 1490.00 LF EELEELECI 32.50 0.03 1.58 0.00 1.004 0.00 tonly, PVC coupling 1400.00 LF EELEELECI 0.16 6.14 31.414 0.00 39.80 0.00 EIZ-#10, rm blocks 12.00 EA EELEELECI 0.18 4.00 10.00 10.59 0.00 EXTARTALLY DETAILS - 2.00 EA EELEELECI 1.25 2 0.00 EXAMPATHHN, 5.57 MLF EELEELECI 1.25 2 0.00 EXAMPATHN, 6.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXTARD - 2.00 EA EELEELECI 1.25 2 0.00 EXTARD - 2.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00 EXAMPATHN, 7.00 EA EELEELECI 1.25 2 0.00		MIL EL <16712 1050 > Cc	rial, PVC //coupling		EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	
1		MIL EL <16018 0520 > Cc	3/4" dia, teel rigid		EELBELEC1	15.63	0.06	3.28	0.00	1.43	0.00	4.71	
Unity, PUC PUC		MIL EL <16712 1050 > Cc	rial only, w/coupling		EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	4.13
dia, incl rigid galv 20.00 LF EELEELEC1 10.00 2.12 0.00 3.49 0.00 lia, incl rigid galv 20.00 LF EELEELEC1 11.63 0.09 4.40 0.00 2.18 0.00 tonly, PVC 70.00 LF EELEELEC1 36.25 2 117 0.00 0.39 0.00 coupling 1490.00 LF EELEELEC1 32.50 46 2,789 0.00 0.57 0.00 pupting 1490.00 LF EELEELEC1 32.50 46 2,789 0.00 0.57 0.00 rm blocks 12.00 EA EELEELEC1 0.16 6.14 314.14 0.00 44.19 0.00 cm blocks 12.00 EA EELEELEC1 0.16 49.64 0.00 105.93 0.00 cm blocks 12.00 EA EELEELEC1 0.13 45 2,713 0.00 702 britohy PVC 0.00 10.00 10.00 10.00 10.00 10.00 cm blocks 12.00 EA EELEELEC1 0.13 45 2,713 0.00 10.70 0.00 britohy PVC 0.00 10.00 10.00 10.00 10.00 10.00 10.00 britohy PVC 0.00 1		MIL EL <16712 1030 > Cc	rial only, w/coupling		EELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
rigid galv 5.00 LF ELLELLECI 11.63 0.09 4.40 0.00 2.18 0.00 rigid galv 5.00 LF ELLELLECI 11.63 0.03 1.41 0.00 0.39 0.00 tonly, PVC		MIL EL <16018 0580 > Cc	.5" e1		EELEELEC1	10.00	0.10	5.12	0.00	3.49	0.00	8,61 205	10.23
t only, PVC (coupling) 70.00 LF ELLELECT 36.25 2 117 0.00 0.39 0.00 0.00 t only, PVC (coupling) 70.00 LF ELLELECT 32.50 46 2,789 0.00 0.57 0.00 tronly, PVC (coupling) 1490.00 LF ELLELECT 32.50 46 2,789 0.00 0.57 0.00 tHWN-THN, 0.07 MLF ELLELECT 0.16 6.14 314.14 0.00 44.19 0.00 transports 12.00 EA ELLER20 1.24 13 770 0.00 39.80 0.00 transports 12.00 EA ELLELECT 0.13 45 2,713 0.00 105.93 0.00 DEMER,15 - 2.00 EA ELLELECT 1.25 2 97 0.00 25 0.00 ELLERAN - 1.25 2 97 0.00 25 0.00 DEMER,15 - 2.00 EA ELLELECT 1.25 2 97 0.00 25 0.00 ELLERAN - 1.25 2 97 0.00 25 0.00 ELLERAN - 1.25 2 97 0.00 25 0.00 ELLERAN - 1.25 2 97 0.00 25 0.00 ELLERAN - 1.25 2 97 0.00 25 0.00 0.00 ELLERAN - 1.25 2 97 0.00 25 0.00 0.00 ELLERAN - 1.25 2 97 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		MIL EL <16018 0540 > Cc	onduit to 15' H, 1" dia, incl ouplings only, steel rigid galv		EELEELEC1	11.63	0.09	4.40	0.00	2.18	0.00	6.59	7.83
Undring to the properties of t		MIL EL <16712 1020 > Cc	onduit, direct burial only, PVC		BELEELEC1	36.25	0.03	1.41	0.00	0.39	0.00	1.80	2.14
HWN-THHN, 0.07 MLF ELLELECI 0.16 0.16 0.26 0.00 44.19 0.00 122.410, 0.07 MLF ELLELECI 0.16 0.16 0.10 39.80 0.00 0.00 0.00 0.00 0.00 0.00 0.00		MIL EL <16712 1030 > Cc	rial only, PVC //coupling		BELEELEC1	32.50	0.03	1.58	0.00	0.57	0.00	2.14	2.55
1.05 54.01 0.00 39.80 0.00 THE BLOCKS 12.00 EA EELER20 1.24 13 770 0.00 39.80 0.00 THWN-THHN, S.57 MLF EELEELECT 0.13 45 2,713 0 702 0.00 BY 120V 2.00 EA EELEELECT 1.25 2 97 0.00 10.70 0.00 P,120V 2.00 EA EELEELECT 1.25 2 97 0.00 25 0.00		RSM EL <16119 0920 > Wi	ire, 600 volt, type THWN-THHN, ppper, solid, #14	0.07 MLF		0.16	6.14	314.14	0.00	44.19	0.00	358.33	425.73
HWN-THHN, 5.57 MLF EELEELECI 0.13 45 2,713 0.00 105.93 0.00 DrKr,15 - 2.00 EA EELEELECI 1.25 2 97 0 25 0		CIV EL <16153 0320 > Ca sc NC NC an	able termn to 600V, #22-#10, zrew type, 12 pt, term blocks JIE: Use for #14, 3 pr #20, a #10		EELER20	1.24	1.05	54.01	0.00	39.80	0.00	93.82 1,338	111.46
Drkr,15 - 0.00 10.70 0.00 P,120V 2.00 EA BELEBLEC1 1.25 2 97 0 25 0		MIL EL <16119 1250 > Wi		5.57 MLF		0.13	8.00	409.64 2,713	0.00	105.93	0.00	515.57	612.55
,		MIL EL <16326 0100 > Pa	brkr,15 P,120V	2.00 EA	BELEELEC1	1.25	0.80	40.96	0.00	10.70	0.00	51.66 123	61.38

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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UY.UK. Gate SI9		QUANTY UOM CREW ID	1	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COS
EM.	MIL EL <16326 0310 > Panelboard£1d ctr ckt brkr,70 - 100A,bolt-on,10k AIC,1 P,120V	2.00 EA EEL	BELEELEC1	1.00	1.00	51.21	0.00	20.33	0.00	71.54	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
M	MIL EL <16325 4340 > Panelboard assem, 20-20A brkr, main 1495, 100A, 1pn, 3 wire, 120/240V NOTE: Use for distribution panel L	1.00 EA EEL	EELEBLEC1	0.08	12.32	630.60 749	00.0	428.54 509	0.00	1059.14	12
M	MIL EL <16337 1700 > Safety switch, neavy duty, 600 V, 3 pole non fused, 100 A	1.00 EA EEL	EELEELEC1	0.24	4.20	215.15	00.00	293.18	0.00	508.33	603.94
M	MIL EL <16119 1600 > Wire, 600 volt, type THWN-THHN, copper, stranded, 1/0	0.59 MLF EEL	EELEELEC1	0.04	24.39	1248.90 868	0.00	1049.67	0.00	2298.57	2730.93
TIM	L EL <16119 1350 > Wire, 600 volt, type THWN-THHN, copper, stranged, #6	0.16 MLF EEL	EELEELEC1	0.08	12.35	632.16	0.00	293.72	0.00	925.88	
MIL	L EL <16119 1200 > Nire, 600 volt, type THWN-THHN, copper, stranded, #12	6.62 MLF EEL	EBLEELEC1	0.14	7.25	371.05	0.00	69.02	0.00	440.07	522.84
MIL	L EL <16181 6000 > Grounding, laid in trench, copper, bare stranded, #4	0.02 MLF EEL	EELER18	0.55	6.00	165.56	0.00	360.59	0.00	526.15	625.11
MIL	L EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or Lug, cadweld	21.00 EA EEL	EELER19	1.94	1.29	66.31 1,654	0.00	19.57	0.00	85.88 2,143	102.04
CI	CIV EL <16213 2744 > Pull box, hinged, steel, NEMA 4, 12° W x 12"H x 6"D	1.00 EA EEL	BELBELEC1	0.63	1.60	81.93	0.00	69.67	0.00	151.60	180.11
M	MIL EL <16213 0380 > Pull box, sheet metal, NEMA 1, type SC, 24"W x 18"H x 6"D	3.00 EA EEL	BELEELEC1	0.46	2.16	110.59	0.00	69.98	0.00	180.57	214.54
M	MIL EL <16213 0330 > Pull box, sheet metal, NEMA 1, type SC, 18"W x 18"H x 6"D NOTE: Use for 12"x 18" x 6"	1.00 EA EELI	BELEELEC1	0.53	1.90	97.53 116	0.00	44.60	0.00	142.13	168.87
so	USR EL <16820 3580 > Stilling well	2.00 EA EELI	EELER19	0.01	219.30 1 439	11273.03 26,787	0.00	7490.00	0.00	18763.03	22292.35
MIL	L EL <16712 1050 > Conquit, direct burial only, PVC sched 40, 2" dia, w/coupling	555.00 LF EEL!	EELEELEC1	22.50	0.04	2.28	0.00	1.20	0.00	3.47	
USR	R EL <16869 0090 > Lighting Contactor	1.00 EA EELF	EELER19	0.83	3.00	154.28 183	0.00	160.50	0.00	314.78	373.99
M	MIL EL <16181 6310 > Grounding, gnd conductor bond, 4/0-300 MCM, splice or lug,	1.00 EA EELER19	1R19	1.94	1.29	66.31	0.00	19.57	0.00	85.88	102.04

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

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TIME 09:25:13

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DETAIL PAGE

09. Gated Culvert

TOTAL COST UNIT COST 615.03 675.49 6.13 5.14 54.64 55.75 1544.06 233.70 831.67 187.12 907.16 448.57 164.83 189.42 5298.43 6,295 568.55 517.66 2,460 1299.60 3,088 196.70 700.00 157.49 763.54 377.55 159.43 4.33 45.99 785 46.92 989 138.73 OTHER 0.00 0.00 0.00 0.00 0.00 700.007 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 00.0 871.23 2,070 3210.00 354.06 1,683 363.73 128.40 0.00 29.48 514.97 107.00 53.50 30.82 LABOR EQUIPMNT MATERIAL 26.75 0.54 9.68 0.21 191 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 000 2088.43 163.59 204.82 428.38 128.01 152 68.30 00.0 270.55 321 4.11 15.17 37.24 503 4.63 248,57 591 111.98 798 105.93 704 75.69 3.19 8.33 4.00 10 4.23 4.00 1.33 00.0 2.50 5.26 0.73 OUTPUT MANHRS 0.09 0.08 0.30 12 0.04 1.88 0.31 0.30 0.25 0.00 0.40 0.21 0.48 0.59 0.63 27.78 31.25 3.38 1.38 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELEC1 EELEELECI QUANTY UOM CREW ID 1.00 EA EELER18 EELER19 1.00 EA EELER19 EELER19 MSHMQ20 EELER19 EELER19 MSHMQ20 1.00 EA 4.00 EA 2.00 EA 1.00 EA 2.00 EA 4.00 EA 128.00 EA 12.00 EA 2.00 EA 1.00 LS 1.00 EA 6.00 EA 4.00 EA MIL EL <16313 9650 > Motor starter & cont, NEWA 1, size 1, comb, rev, w/disc switch MIL EL <16338 4400 > Safety switch, hvy dty, 100 amp, w/ fuse, 600 volt, 3 pole NEMA 1 RSM EL <16324 0100 > Meter centers & sockets, 4 term, 100 A, socket, 1 position > Wiring device, concealed, switch, 120 volt, 20 amp, SPST MIL EL <16338 5510 > Safety switch, hvy dty, 30 amp, w/ fuse, 600 volt, 3 pole NEMA 3R CIV EL <16213 1710 > Cabinet, hinged, 36"W x 30"H x 12"D, sheet met, dbl dr, NEMA 3R AF EL <16232 2480 > Wiring device, receptacle, gnd fault intrpt, 15 amp, duplex USR EL <16000 0001 > Concrete antennae pole NOTE: Includes foundation, ground rod, ground cable, NOTE: Use for RTU enclosure USR EL <16711 0011 > Meter Connection by Utility NOTE: Use for 2/0 cadweld USR EL <13810 0001 > Limit and Rotary Switches USR EL <16153 0016 > Cable Termination #10 USR EL <16153 0014 > Cable Termination #14 USR EL <13810 0002 > Push Button Stations USR EL <13810 5471 > Surge Suppressor conduit, etc. USR EL <16333 1401 > Photo-cell MIL EL <16234 0160 09.08. Gate S19

UPB ID: UP01EA

NAT01A

CREW ID: 1

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Réservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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HIL EL (1661) 3000 > Pouchs area lighting, 19' tall, 2.00 EA ERIERIS 2.88 2.69 194.28 1177 617.55 195.00 1,172 1,172 1,17	09,08. Gate S19		QUANTY UOM CREW	CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT	UNIT COST
on 4.00 EA ERLERIS 0.89	MIL EL <16617 30	00 > Poles, area lignting, 10' tall, round, 3" OD, al, non-tapered		EELER15	2.88	2.09	104.23	17.77	497.55	0.00	619.55	736.09
O1 LONG GA ESLERIS	MIL EL <16617 35	00 > Poles, area lighting, 20' tall, round, 3" OD, galv steel, tapered	2.00 EA	BELER15	0.89	6.76	337.46 802	57.54 137	371.08	0.00	766.07 1,820	910.17
0. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Long O. Con O. Long O. Con O. Long O. Con O. Long O. Con O.		00 > Light Pole Foundation	4.00 EA	EELER15	0.75	8.00	399.55	68.12 324	246.10	0.00	713.77	848.03
trench, by the balance of the color of the c			7.00 EA	EELEELEC1	0.50	2.00	102.41	0.00	133.75	0.00	236,16	280.58
1.00 EA EELER19 0.16 16.13 829.11 0.00 635.00 0.00 1.621 1.6	EL		0.84 MLF		0.35	9.43	260.16 258	0.00	1134.20	0.00	1394,36	1656.64
xtr, 1×4', atches 4.00 EA ELLER22 3.25 atches 1.43 atches 67.39 atches 0.00 atches 65.16 atches 0.00 atches 122.55 atches 1 terpe B 2.00 EA ELLELLECZ 0.72 atches 2.76 atches 141.33 atches 0.00 atches 454.75 atches 0.00 atches 596.08 atches 1 Halide Letype C 2.00 EA ELLERLECZ 0.72 atches 2.76 atches 141.33 atches 0.00 atches 1,081 atches 0.00 atches 1,416 atches 0.00 atches 1,416 atches 0.00 atches 1,416 atches 0.00 atches 2,099 atches 0.00 atches <td< td=""><td></td><td>25 > Level Gage</td><td></td><td>EELER19</td><td>0.16</td><td>16.13 16</td><td>829.11 985</td><td>0.00</td><td>535.00</td><td>0.00</td><td>1364.11</td><td>1620.70</td></td<>		25 > Level Gage		EELER19	0.16	16.13 16	829.11 985	0.00	535.00	0.00	1364.11	1620.70
Halide 2.00 EA EELEELECZ 0.72 6 336 0.00 454.75 0.00 596.08 1,416 1 1 1 1 1 1 1 1 1		30 > Surface mtd fluor fxrr, 1'x4', two 40W, drop opal lens NOTE: Use for type A (PF8)	4.00 EA	EELER22	3.25	1.43	67.39 320	0.00	65.16	0.00	132.55 630	157.49
Hailde	USR EL <16611 00	01 > Ltg fxtr, 175w Metal Halide (EH-1)	2.00 EA	EELEELEC2	0.72	2.76	141.33	0.00	454.75	0.00	596.08	708.21
Hallde		re type										
D (250w Metal 4.00 EA EELER19 1.08 9 568 0.00 322.07 0.00 441.62 and the following states of the follo	B USR EL <16622 30	l Halide re type	2.00 EA	EELEELEC2	0.72	2.76	141.33 336	0.00	454.75	0.00	596.08 1,416	708.21
EL <16611 4120 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood	MIL EL <16622 30	Ω	4.00	EELER19	1.08	2.33	119.55 568	00.00	322.07	0.00	441.62	524.68
EL <02230 4020 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trench. 30" deep, 24" wide, 40 HP, chain trench. 33.20.00 LF COETR23 33.25 358 18,289 16,951 0 0.00 0.00 8.93 created trencher trencher to copper, stranded, #4 0.03 MLF EELEELECT 0.07 0.07 28 0.00 182.44 0.00 694.48 copper, stranded, #8 0.80 MLF EELEELECT 0.10 8 487 0 173 0.00 694.48		20 > Ltg fxtr, surf/pendant mtd, compact fluorescent mini flood NOTE: Use for type E (E12)	8.00 EA	EELER22	2.88	1.62	76.18 724	0.00	151.62	0.00	227.80	270.65
EL <16119 1400 > Wire, 600 volt, type THWN-THHN, copper, stranded, #4 0.03 MLF EELEELECI 0.07 0.07 28 0.00 448.33 0.00 1224.16 EL <16119 1300 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8 0.80 MLF EELEELECI 0.10 8 487 0 173 0 660	MIL BL <02230 40	20 > Excavate utility trench, 30" deep, 24" wide, 40 HP, chain trencher	3320.00 LF	COETR23	33.25	0.11	4.64	4.30 16,951	00.0	0.00	8.93	10.61
e THWN-THHN, 0.80 MLF EELEELECI 0.10 8 487 0.00 182.44 0.00 694.48	EL	9 T	0.03 MLF		0.07	15.15	775.83	0.00	448.33	0.00	1224.16	1454.43
	MIL EL <16119 13	00 > Wire, 600 volt, type THWN-THHN, copper, stranded, #8	0.80 MLF	EELEELEC1	0.10	10.00	512.05	00.00	182.44	0.00	694.48 660	825.12

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
09. Gated Culvert

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LABOR EQUIPMNT MATERIAL QUANTY UOM CREW ID OUTPUT MANHRS 09.08. Gate S19

	3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	QUANTY UOM CREW ID	1 CREW ID	OUTPUT	MANHRS	LABOR	EQUIPMNT	MATERIAL	OTHER	TOTAL COST UNIT COST	UNIT COST
							1				
USR EL <16119 0990 > Wire, #16	<pre>% Nire, 600 volt, type THWN-THHN, #16</pre>	0.16 MLF	EELEELEC1	0.17	5.75	294.28	0.00	42.80	0.00	337.08	400.49
USR EL <16153 0010 >	> Cable Termination #1/0	30.00 EA	EELER19	16.67	0.15	7.71	0.00	3.21	0.00	10.92	12.97
USR EL <16513 2015 >	> Emergency Generator 20 KW	1.00 EA	EELER3	90.0	39.68	2064.57	323.02	18725.00	0.00	21112.59 25,084	25083.87
MIL EL <16511 1330 >	<16511 1330 > Automatic transfer switch, 100 amp, enclosed 600 voit, 3 pole	1.00 EA	BELEELEC1	0.16	6.15	315.11	0.00	3107.28	0.00	3422.39	4066.14
USR EL <16323 0001 > Terminal Box	Yerminal Box	1.00 EA	EELEELEC1	0.42	2.40	122.79	0.00	802.50	0.00	925.29	1099.34
TOTAI	TOTAL Electrical	1.00 EA			2,468	141,039	27,000	119,624	1,663	289,327	289327.30
09.08.15. Equipment Building	bu]										
USR AA <03450 0001 >	USR AA <03450 0001 > Precast Concrete Building Note: Note: Material price from Concrete Modular Systems 727-945-1756 AITN: Frederick Kennedy	1.00 EA	SIWSE7A	90.0	130.08	7180.22 7,180	1676.22	41730.00 41,730	00.0	50586.444 50,586	50586.44
MIL AA <03170 3000 >	MIL AA <03170 3000 > Forms in place, SOG, edge forms, wood, to 6" high, 4 use	68.00 LF	ACARC1	75.00	0.05	0.96	0.00	0.51	0.00	1.48	1.48
MIL AA <03217 0600 >	• Reinforcing in place, slab on grade, #3 to #7	0.20 TON	SIWRRODM4	0.29	13.89	363.20	0.00	727.60	0.00	1090.80	1090.80
M RSM AA <03326 0300 >	<pre><03326 0300 > Concrete ready mix, regular weight 1:3:5 mix 4000 psi</pre>	5.00 CY	N/A	00.00	0.00	0.00	0.00	126.26	0.00	126,26	126.26
MIL AA <03372 4400 >	<pre><03372 4400 > Placing conc, slab on grade, 6" thick, w/crane & bucket</pre>	5.00 CY	ULABC7	13.75	0.58	10.01	7.94	0.00	0.00	17.95	17.95
MIL AA <03396 0010 >	Finishing floors, monolithic, screed finish	264.00 SF	ACMACEF11	112.50	0.01	0.17	0.00	0.00	0.00	0.17	0.17
MIL AA <03396 0100 >	<pre><03396 0100 > Finishing floors, monolithic, float finish</pre>	264.00 SF	ACMACEF11	90.63	0.01	0.22	00.00	0.00	0.00	0.22	0.22
MIL AA <03396 0150 > Finishing floors, broom finish	· Finishing floors, monolithic, broom finish	264.00 SF	ACMACEF11	84.38	0.01	0.23	0.00	0.00	0.00	0.23	0.23
MIL AA <02215 2460 >	MIL AA <02215 2460 > Backfill, sand bedding trenches, front-end loader, 1.5 CY NOTE: Use for granular fill	5.00 CY	CODFB10N	47.50	0.03	1.07	0.77	16.26	0.00	18.10	18.10

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 09. Gated Culvert PROJECT C43RES:

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0.75 9.13 TOTAL COST UNIT COST 51880.06 1323.70 1323.70 1323.70 795.97 2387.92 364,117 364116.68 862,433 862432.53 51,880 1056.00 1056.00 6,167,977 1056.00 635.00 1905.00 2,388 0.60 7.28 328,517 OTHER 9,980 0 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,663 0 0 4.28 193,139 856.00 1,073 856.00 2,146 856.00 1,073 535.00 671 1605.00 2,012 0.00 LABOR EQUIPMNT MATERIAL 42,623 315,981 3,485,603 200,114 460,450 44,503 0.00 0.00 0.00 0.00 1,720 0.00 00.0 0.13 5,889 200.00 200.00 0.47 3.00 7,537 100.00 56,042 2,356,412 200.00 251 300.00 158,114 355,816 0.00 0.00 0.00 0.00 0.00 0.01 0.11 8,231 148 0 0 OUTPUT MANHRS 00.0 90.63 30.35 0.00 0.00 00.0 0.00 QUANTY UOM CREW ID 36000 LF EELER18 CODBB54 1.00 EA N/A N/A N/A 1.00 EA 1.00 EA 1.00 EA 36000 LF 2.00 EA 1.00 JB 1.00 EA 1.00 EA 1.00 EA USR MC <15743 0001 > Emergency Generator IO Points MC <02230 2850 > Excavate utility trench, 36" deep, 12" wide, 40 HP, chain trencher USR MC <15743 0001 > Upstream Downstream Level IO Points USR MC <15743 0001 > Dewatering Gate 10 Points USR MC <15743 0001 > Telemetry To/From Gated Structure USR MC <15743 0001 > Control Conduit & Cable under precast building TOTAL Equipment Building USR MC <15743 0001 > 16 VHF Data Radios Structure TOTAL Gated Culvert TOTAL Gate S19 TOTAL Controls 09.08.95. Controls ΑF 09.08. Gate S19

EQUIP ID: C43RES

LABOR ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

UP01EA	
ID:	
UPB	
NAT01A	
ID:	
CREW	

TIME 09:25:13 DETAIL PAGE 313	UNIT COST	 	1318.38	3955.13
TIME	TOTAL COST UNIT COST		0.00 1318,38 0 3,955	3,955
	OTHER		0.00	30 599 467 2,889 0 3,955
	LABOR EQUIPMNT MATERIAL		963.00	2,889
ment	EQUIPMNT		10.00 199.80 155.57 30 599 467	467
ter Manage	LABOR		199.80 599	599
lorida Wa	OUTPUT MANHRS		10.00	30
gineers South F	DUTPUT		0.40	
my Corps of En cage Reservoir 30% Submittal 10. Sitework	CREW ID		ULABN	
U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 10. Sitework	QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNI MATERIAL OTHER TOTAL COST UNIT COST		3.00 EA ULABN	1.00 EA
PROJECT C43RES:			USR AA <02831 7792 > Venicle Barrier Gate	roTAL Venicle Barrier Gate
Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE	10.01. Venicle Barrier Gate	<pre>10. Sitework 10.01. Venicle Barrier Gate</pre>	USR AA <02831 77	X

CREW ID: NAT01A UPB ID: UP01EA

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
10. Sitework

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		31.02	1.04
OTHER TOTAL COST UNIT COST			116,381 116381.04
TOTAL CC		31.02	116,3
OTHER		0.00	0
ATERIAL		16.05 60,220	60,220
LABOR EQUIPMNT MATERIAL		0.00	0
LABOR E(14.97 56,161	897 56,161 0 60,220 0 116,381
TANHRS		0.24 14.97 8.36 897 56,161	897
OUTPUT MANHRS		8.36	ļ
CREW ID		SIWSE17	
QUANTY UOM CREW ID		3752.00 LF SIWSE17	1.00 EA
10.02. Floating Safety Barrier OTHER TOTAL COST UNIT COST	10.02. Floating Safety Barrier	USR AA <05180 0001 > Floating Safety Barrier	TOTAL Floating Safety Barrier

	11	-	11
00.00	0		897 56,161 0 60,220 0 11
16.05	60,220		60,220
00.00	0	1 1 1 1 1 1 1 1 1	0
14.97	56, 161	1 1 1 1 1 1 1 1	56,161
0.24	897	1 1 1 1 1	897
	8,36	•	
	SIWSE17		
	3752.00 LF SIWSE17		1.00 EA
SR AA <05180 0001 > Floating Safety Barrier			TOTAL Floating Safety Barrier

LABOR ID: C43RES EQUIP ID: C43RES

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

TIME 09:25:13 DETAIL PAGE 315	UNIT COST		31.02	94823.25
TIM	OTHER TOTAL COST UNIT COST		31.02	94,823
	OTHER		0.00	0
	MATERIAL		0.00 16.05 0 49,065	731 45,758 0 49,065 0 94,823
ent	LABOR EQUIPMNT MATERIAL		00.00	0
er Managem	LABOR		14.97 45,758	45,758
orıda Wat	OUTPUT MANHRS		0.24	731
ineers South Fl	OUTPUT		8.36	
my Corps of Engage Reservoir - 30% Submittal 10. Sitework	CREW ID		SIWSE17	
U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal 10. Sitework	QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNI MATERIAL OTHER TOTAL COST UNIT COST		3057.00 LF SIWSE17	1.00 EA
PROJECT C43RES:			USR AA <05180 0001 > Floating Weed Barrier	TOTAL Floating Weed Barrier
Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE	10.03. Floating Weed Barrier	10.03. Floating Weed Barrier	USR AA <05180 0001 >	TOTAL

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
10. SiteWork

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OTHER TOTAL COST UNIT COST		5 1.27	5 1.27
OTAL COS		1.27	0 164,315
OTHER		0.00	0
LABOR EQUIPMNI MATERIAL		0.72	0 92,768
DUIPMNT M		0.00	0
LABOR E(0.55 71,546	5,914 71,546 0 92,768 0 164,315
MANHRS		0.05 5,914	5,914 71,546
OUTPUT MANHRS		43,75	•
CREW ID		129402 LF ALABCLAB2	
QUANTY UOM CREW ID		129402 LF	129402 LF
10.10. Silt Fence QUANTY UOM CREW ID OUTPUT MANHRS LABOR EQUIPMNI MATERIAL OTHER TOTAL COST UNIT COST	10.10. Silt Fence	MIL AA <02266 1120 > Erosion control, w/7.5' posts, silt fence, 3' high, polypropylene	TOTAL Silt Fence

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43Rest Storage Reservoir - South Florida Water Management 30% Submittal

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

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10. Sitework

DETAIL PAGE

13.83 13.83 1.93 47.52 49.24 OTHER TOTAL COST UNIT COST 1601456 536,923 536923.40 2138380 2517854 13.83 1,601,456 1.93 49.24 13.83 47.52 259,107 0 2,517,854 1,601,456 2,138,380 0 0.00 0.00 0 0.00 0.00 0.00 0 6.42 743,404 6.42 1.38 42.80 42.80 417,430 LABOR EQUIPMNT MATERIAL 518,088 1,160,834 518,555 1,365,776 4.02 465,797 0.15 2.60 4.02 1.78 52,291 633, 523 3.39 392,256 3.39 0.41 2.94 3.84 6,486 459,458 67,202 0.09 54.38 10,653 0.17 13,308 10,653 0.02 0.14 2,655 20,881 OUTPUT MANHRS 78.75 54.38 71.88 150.00 115795 CY COFGB36C 7873.00 CY COFGB36C 1689.00 TON COKCB25B QUANTY UOM CREW ID 5453,00 TON COKCB25 44344 SY ULABA2 1.00 EA 1.00 EA 1.00 EA 1.00 EA TOTAL Toe Road/Access Road Shell Rock CIV AA <02250 2140 > Geotextile fabric, 120 mil thick, non-woven polypropylene M RSM AA <02505 0810 > Asphaltic conc pavement, highway, Structural Course M RSM AA <02505 0850 > Asphaltic conc pavement, highway, Friction Course M MIL AA <02244 1510 > Shell Rock Base M MIL AA <02244 1510 > Shell Rock Base 10.20.01. Toe Road/Access Road Shell Rock TOTAL Aspnalt Paving TOTAL Access Road TOTAL Sitework 10.20.02. Asphalt Paving 10.20. Access Road 10.20. Access Road

0.00 815000.00 815000.00 0 815,000 815,000 815000.00 2065469 63184790 60339360 67444953 1,051,828 192,020,932 192020932 815,000 815000.00 OTHER TOTAL COST UNIT COST 0 815,000 LABOR EQUIPMNT MATERIAL 0.00 0.00 0.00 0 OUTPUT MANHRS 00.0 QUANTY UOM CREW ID 1.00 JB 1.00 EA 1.00 LS 1.00 EA USR AB <16910 0005 > Relocated Overhead Power Line TOTAL C43 West Storage Reservoir TOTAL Power Line Relocation TOTAL Site Electrical 11. Site Electrical 11.01. Power Line Relocation 11.01. Power Line Relocation

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U.S. Army Corps of Engineers PROJECT C43RES; C43 West Storage Reservoir - South Florida Water Management 30% Submittal

Wed 31 May 2006 Eff. Date 05/31/06 DETAILED ESTIMATE

11. Site Electrical

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EQUIP ID: C43RES LABOR ID: C43RES

CREW ID: NATO1A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submitta1
** PROJECT OWNER SUMMARY + Bid Item **

Wed 31 May 2006 Eff. Date 05/31/06

TIME 09:25:13

SUMMARY PAGE

66,859,637 334,298,183 334298183	39,831,273	227,607,274	1.00 EA	TOTAL C43 West Storage Reservoir
		11111111111		
239,406 1,197,031 1197031	142,625	815,000	1.00 EA	it Sice Electrical
4	522,631	2, 300, 403	1.00 EA	
101	, , , , , , , ,			77.03.01
2,149,055 10,745,274 10745274	1,280,288	7, 315, 931	1.00 EA	Us Gated Culvert
196,413 982,065 982065.30	117,012	668,640	1.00 EA	oo cresced Spillway
1,636,060 8,180,300 8180300	974,674	5, 569, 566	1.00 EA	00 Continueder Canal Structures
	311,096	1,777,689	1.00 EA	02 Parancing Structure
	865,511	4,945,778	1.00 EA	os main outlet structure
13,475,665 67,378,323 67378323	8,028,056	45,874,603	1.00 EA	of rump scartons
6,968 34,842 34842.14	4,151	23, 722	1.00 EA	of Nected Loss Areas
40,421,401 431,430,U34 431436U34	05.4.104.19	1001101	111 0011	03 000000000000000000000000000000000000
	000 753 76	157 587 087	1.00 E	02 Perimeter Dam, Separator Dam
12,570 62,850 62850 12	7,489	42,792	1.00 EA	01 Demolition
CONTINGN TOTAL COST UNIT COST	ESCALAIN		QUANTY UOM	QUANTY UOM

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management ** PROJECT OWNER SUMMARY - Feature ** PROJECT C43RES:

TIME 09:25:13

SUMMARY PAGE

TOTAL COST UNIT COST

CONTINGN

ESCALATN

CONTRACT

QUANTY UOM

1,95 1,95 16,23 16,23 4,43 7,92 85,19 79,29 14,86 2673,73 21531.03 41319.08 3550009 3714103 62850.12 65501.47 46,291,207 231,456,034 231456034 34,842 34842.14 59816961 67378323 1,731,470 87,667,747 770,153 32,408,720 67,267,849 67,267,849 609,346 629,346 625,652 8,327,435 21,531 15,211,189 2,085,318 14,671,857 3,550,009 3,714,103 62,850 11,963,392 59,816,961 1,512,273 7,561,363 13,475,665 67,378,323 3,042,238 2,934,064 2,934,294 17,533,549 15,481,744 13,483,570 121,869 121,869 1,665,487 1,665,487 1,665,487 710,002 742,821 4,306 8,264 12,570 6,968 1,812,397
248,463
1,748,136
206,303
10,445,519
91,763
3,861,465
8,014,893
72,603
72,603
72,603 2,565 4,923 7,127,127 8,028,056 7,489 422,980 442,531 27,577,740 4,151 14,659 28,132 42,792 10,356,554 1,419,791 1,118,873 5,688,679 522,665,512 45,799,387 414,874 414,874 415,97 5,465,97 415,97 2,417,027
2,528,751
4,945,778 40,726,441 5,148,162 45,874,603 157,587,087 23,722 10365 AC 1070000 CY 105852 CY 106670 LF 19772438 CY 130250 CY 130250 CY 174.00 TON 41000 CY 234.00 AC 250.00 AC 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA ΕÀ 1.00 EA 1.00 EA 1.00 Soil Cement
Toe Drain Outfall End Treatment
Select Fill
Seeding TOTAL Perimeter Dam, Separator Dam Cell Instuments & Controls Perimeter Dam, Separator Dam Stripping Blanket Drain Toe Drain Random Fill Embankment 01.01 Demo Large Pump Station 01.02 Demo Small Pump Station 04.01 Pump Station 1 - C43P1 04.02 Pump Station 4 - C43P4 05 Main Outlet Structure

Clear and Grub

TOTAL Demoittion

01 Demolition

Chimney Drain Slurry Wall

02.01 02.02 02.03 02.04 02.05 02.06 02.07 02.08 02.15 02.20 02.21

03 Recreation Areas

Sodding

04 Pump Stations

TOTAL Pump Stations

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

7264112

7,264,112

1,452,822

865,511

ЕÀ

1.00

TOTAL Main Outlet Structure

05.01 Gate S1 05.04 Gate S8

06 Balancing Structure

06.01 Gate S12

2610980 2610980

2,610,980 2,610,980

522,196

522,196

311,096

311,096

1,777,689 1,777,689

1.00 EA 1.00 EA

TOTAL Balancing Structure

EQUIP ID: C43RES LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Feature **

TIME 09:25:13 SUMMARY PAGE 3

	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
07 Perimeter Canal Structures						
20 20 20 20 20 20 20 20 20 20 20 20 20 2	•		;			
	1.00 EA	1,512,861	264,751	444,403	2,222,015	2222015
Gate	1.00 EA	2,361,435	413,251	693,672	3,468,358	3468358
TOTAL Perimeter Canal Structures	1.00 EA	5,569,566	974,674	1,636,060	8,180,300	8180300
08 Crested Spillway						
08.01 Gate CS1 Crest Spillway 08.02 Gate CS2 Crest Spillway	1.00 EA 1.00 EA	392, 187 276, 453	68, 633 48, 379	115,205	576,025 406,041	576,025 576024.59 406,041 406040.71
TOTAL Crested Spillway	1.00 EA	668,640	117,012	196,413	982,065	982,065 982065.30
09 Gated Culvert						
Gate	1.00 EA	1,325,443	231,952	389,349	1,946,744	1946744
Gate		837,412	146,547	245,990	1,229,948	1229948
Gate		986, 143	172,575	289, 679	1,448,397	1448397
09.04 Gate SIS		1,226,511	214, 639	360,288	1,801,438	1801438
Gate	1.00 EA	146,392	25,619	43,003	215,013	215013.13
Gate		1.028.163	179,929	302 023	1,091,169	1510115
09.08 Gate S19		1,022,944	179,015	300,490	1,502,450	1502450
TOTAL Gated Culvert	1.00 EA	7, 315, 931	1,280,288	2,149,055	10,745,274	10745274
10 Sitework						
10.01 Vehicle Barrier Gate	1.00 EA	4,691	821	1,378	6.890	6890.26
	1.00 EA	138,041	24,157	40,550	202,748	202748.19
10.03 Floating Weed Barrier		112,471	19, 682	33,038	165,192	165192.23
	129402 LF 1.00 EA	194,896 2,536,365	34,107 443,864	57,251 745,057	286,254 3,725,286	2.21 3725286
TOTAL Sitework	1.00 EA	2,986,465	522, 631	877,274	4,386,370	4386370
11 Site Electrical						
11.01 Power Line Relocation	1.00 JB	815,000	142, 625	239,406	1,197,031	1197031
TOTAL Site Electrical	1.00 EA	815,000	142,625	239,406	1,197,031	1197031
TOTAL C43 West Storage Reservoir	1.00 EA	227,607,274	39,831,273	66,859,637	66,859,637 334,298,183 334298183	334298183

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Sub Feat **

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SUMMARY PAGE

	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
01 Demolition						
01.01 Demo Large Pump Station 01.02 Demo Small Pump Station	1.00 EA 1.00 EA	14,659 28,132	2,565 4,923	4,306	21,531	21531.03 41319.08
TOTAL Demolition	1.00 EA	42,792	7,489	12,570	62,850	62850.12
02 Perimeter Dam, Separator Dam						
	10365 AC	10,356,554	1,812,397	3,042,238	15,211,189	1467.55
02.02 Stripping		1,419,791	248,463	417,064	2,085,318	1.95
	192852 CI 106670 LF	1,178,873	1,748,136	2,934,371	14,671,857	76.08
		59, 688, 679	10,445,519	17, 533, 549	87, 667, 747	4.43
02.00 Chimney Drain	130250 CY 4485936 SF	524,360	91,763	154,031	770, 153	5.91
		45, 799, 387	8,014,893	13,453,570	67.267.849	85.19
			1,644	2,759	13,796	79.29
		414,874	72,603	121,869	609,346	14.86
02.21 Sodding	234.00 AC 250.00 AC	425,976 5,669,743	74,546 992,205	125,130	625,652 8,327,435	2673.73 33309.74
02.95 Cell Instuments & Controls						
02.95.95 Controls	1.00 EA	44,597	7,804	13, 100	65,501	65501.47
TOTAL Cell Instuments & Controls	1.00 EA	44,597	7,804	13,100	65,501	65501.47
TOTAL Perimeter Dam, Separator Dam	1.00 EA	157,587,087	27,577,740	46,291,207	46,291,207 231,456,034	231456034
03 Recreation Areas	1.00 EA	23,722	4,151	896'9	34,842	34842.14
04 Pump Stations						
04.01 Pump Station 1 - C43P1						
		16,744,484	2,930,285	4,918,692	24,593,461	
04.01.02 Equipment 04.01.03 Track Handling System Bridge		18,179,209	3,181,362	5,340,143	26, 700, 714	
•••		906, 630	158,660	266.322	1.331.612	
		1,104,487	193, 285	324,443	1,622,216	
04.01.06 Equipment Building	1.00 JB	29,324	5,132	8,614	43,070	43070.32
	1.00 JB	23,843	342,362	7.004	35.019	4551964 35019 29
_	92167 SF	219,162	38,353	64,379	321,894	3.49
04.01.10 Concrete Paved Ditch		8,524	1,492	2,504	12,519	147.28
04.01.11 Channel Excavation 04.01.12 Septic Tank & Drain Field	240430 CY 1.00 EA	16,992	33,761	56,671	283,355	1.18
					,	,

EQUIP ID: C43RES LABOR ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43Res: C43West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Sub Feat **

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		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	CONTINGN TOTAL COST UNIT COST	UNIT COST
i t t t t	04.01.13 Storm Sewer Piping	1.00 EA	19.797	3 465	200	11000	00 22000
				005/0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	110167	23011.20
	TOTAL Pump Station 1 - C43P1	1.00 EA	40,726,441	7,127,127	11,963,392	59, 816, 961	59816961
	04.02 Pump Station 4 - C43P4						
	04.02.01 Pump Station 4 - C43P4		719 917	306 301	207		
			2,024,227	354,240	594.617	2,973,083	
			989,029	173,080	290,527	1,452,636	
	04.02.03 Fump House/ Discharge Structure		349,510	61,164	102,669	513,343	
			976,418	15,5/5	26, 144	1,434,113	
	TOTAL Pump Station 4 - C43P4		5,148,162	900,928	1,512,273	7,561,363	
	TOTAL Pump Stations	1.00 EA	45,874,603	8,028,056	13, 475, 665	67,378,323	67378323
	05 Main Outlet Structure						
	05.01 Gate S1						
		1.00 EA	11,229	1,965	3,299	16,493	16493.08
		1.00 EA	677,568	118,574	199,035	995,177	995177.44
	US.UI.U4 Rip Rap	1.00 EA	41,625	7,284	12,227		61137.13
	05.01.11 Electrical	1.00 EA	935,653	163,739	274,848	1,374,241	1374241
		1.00 JB	61,536	10.769	157,459	90 381	18/293.18
	05.01.90 Miscellaneous	1.00 EA	92,477	16, 183	27,165		135825.38
	05.01.95 Controls	1.00 EA	60,910	10,659	17,892		89460.90
	TOTAL Gate S1	1.00 EA	2,417,027	422,980	710,002	3,550,009	3550009
	05.04 Gate S8						
		1.00 EA	11,229	1,965	3,299	16,493	16493.08
	05.04.03 Concrete	1.00 EA	651, 469	114,007	191,369	956,845	956,845 956845.00
	05:04:05 Gates	1.00 EA	41,625	7,284	12,227	61,137	61137.13
		1.00 EA	536,029	93,805	157,459	787,293	15/3922
		1.00 JB	61,536	10,769	18,076	90,381	90380.61
	05.04.90 Miscellaneous 05.04.95 Controls	1.00 EA 1.00 EA	90,750 200,676	15,881 35,118	26,658	133,289	133,289 133289.01 294,743 294742.52
	TOTAL Gate S8	1.00 EA	2,528,751	442,531	742.821	3.714.103	3714103
			1	1			
	TOTAL Main Outlet Structure	1.00 EA	4,945,778	865,511	1,452,822	7,264,112	7264112

LABOR ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

EQUIP ID: C43RES

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUBMARY - Sub Feat ** PROJECT C43RES:

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SUMMARY PAGE

	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN		TOTAL COST UNIT COST
06 Balancing Structure	· · · · · · · · · · · · · · · · · · ·					
06.01 Gate S12						
06.01.03 Concrete	1.00 EA	726.292	127, 101	213 348	CAC 330 L	0,000
06.01.05	1.00 EA	262,328	45,907	77.059	385.294	č
06.01.11 Electrical		444,201	77,735	130,484	652,421	
		61,536	10,769	18,076	90,381	
06.01.95 Controls	1.00 EA	82,655 200,676	14,465 35,118	24,280	121,400	121399.97
TOTAL Gate S12	1.00 EA	1,777,689	311,096	522,196	2,610,980	
TOTAL Balancing Structure	1.00 EA	1,777,689	311,096	522, 196	2,610,980	
07 Perimeter Canal Structures						
07.01 Gate S3						
	1.00 JB	2, 762	7			
07.01.02 Sheet Piling		135,881	23,779	30 915	100 575	100575 01
		361,222	63,214	106,109	530,544	
		19,509	3,414	5,731	28,653	
		170,842	29,897	50,185	250,924	(4
07.01.11 Flectrical	1.00 EA	17,762	3, 108	5,217	26,087	
	1.00 E	336, 764	62,434	104,799	523, 997	u)
07.01.95 Controls		386,585	67,652	113,559	90,381 567,796	90380.61 567796.23
TOTAL Gate 83	1 00 1	1 512 861	135 736			
07 02 646 640		100 / 71 / / /	167 7507	444, 403	2,222,015	2222015
6 6 6 7						
07.02.01 Excavation	1.00 JB	4,505	788	1,323	2,5	CL 3133
		212,839	37,247	62,521	312,607	5
07.02.03 Concrete	1.00 EA	501,442	87,752	147,299	736,493	
07.02.04 Erosion Control System		23,413	4,097	6,877	34,387	
		352,498	61,687	103,546	517,731	517731.33
07.02.08 Kip Kap	1.00 EA	27,858	4,875	8,183	40,917	40916.66
07.02.15 Equipment Building	1.00 EA	374,950	65, 616	110,142	550,708	550707.83
		136,230	23,840	40,078	90,381	90380.61 200087.62
TOTAL Gate \$10	1.00 EA	1,695,270	296, 672	497,986	2, 489, 928	2489928
07.03 Gate S11						
07.03.01 Excavation	1.00 JB	6,679	1,169	1.962	9.810	4809 57
				307/+	01010	

LABOR ID: C43RES EQUIP ID: C43RES

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U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Managemeñt
30% Submittal
** PROJECT OWNER SUMMARY - Sub Feat **

PAGE
SUMMARY

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
<u> </u>	1.00 EA 1.00 EA 1.00 JB 1.00 EA 1.00 EA 1.00 EA	450,150 837,322 30,486 518,168 44,804 384,236 61,536	78,776 146,531 5,335 90,679 7,841 67,241	132,231 245,963 8,955 152,212 13,161 11,076	661, 157 1, 229, 817 44, 777 761, 060 65, 805 564, 341	661157.32 1229817 44776.61 761059.98 65805.16 564347.22
TOTAL Gate S11 TOTAL Perimeter Canal Structures	1.00 EA	2,361,435	413,251	693, 672	3,468,358	3468358
d S		890'590'0	919,014	1, 636, 080	8, 180, 300	8180300
08.01 Gate CS1 Crest Spillway						
08.01.02 Sheet Piling 08.01.03 Concrete 08.01.06 Rip Rap 08.01.90 Miscellaneous	1.00 EA 1.00 EA 1.00 EA 1.00 EA	7,568 322,165 50,976 11,479	1,324 56,379 8,921 2,009	2,223 94,636 14,974 3,372	11,115 473,180 74,871 16,859	11114.90 473179.88 74870.69 16859.12
	1.00 EA	392,187	68, 633	115,205	576,025	576024.59
os.oz dare coz crest opiliway						
08.02.02 Sheet Piling 08.02.03 Concrete 08.02.06 Rip Rap 08.02.90 Miscellaneous	1.00 EA 1.00 EA 1.00 EA 1.00 EA	7,568 219,553 39,172 10,161	1,324 38,422 6,855 1,778	2,223 64,494 11,507 2,985	11,115 322,468 57,534 14,923	11114.90 322468.33 57533.99 14923.49
TOTAL Gate CS2 Crest Spillway	1.00 EA	276,453	48,379	81,208	406,041	406040.71
TOTAL Crested Spillway	1.00 EA	668, 640	117,012	196,413	982,065	982,065 982065.30
09 Gated Culvert						
09.01 Gate S7						
		248,569	43,500	73,017	365,086	
09.01.04 Erosion Control System 09.01.05 Gates	1.00 JB	107,119	18,746	31,466	157,331	157331.28
		76,109	13,319	22,357	111,785	
	1.00 EA	46,811	8,192	13,751		
		356,764	62,434	104,799	Ŋ	523996.89
09.01.95 Controls		257,693	45,096	18,076	378,486	378486.42
		111111111		1	1 1 1 1 1 1 1 1	

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Sub Feat **

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SUMMARY PAGE

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
TOTAL Gate S7	1.00 EA	1,325,443	231,952	389, 349	1,946,744	1946744
09.02 Gate S9						
_		91,974	16,095	27.017	135.086	135086 43
09.02.04 Erosion Control System	1.00 JB	27,310	4,779	8,022	40, 111	
		62, 485	10,935	18,355	91,775	
09:02:00 5top Logs		30,987	5, 423	9,103	45,513	
		24,827	4,345	7,293	36,464	
		536, 764	10 769	104, 799	523, 997	523996.89
		181,530	31,768	53,324	266,622	266621.53
TOTAL Gate S9	1.00 EA	837,412	146,547	245,990	1,229,948	1229948
09.03 Gate S14						
		77,013	13,477	22,623	113, 113	
		12,603	2,205	3,702	18,510	18510.10
09.03.05 Gates		73,386	12,843	21,557	107,786	-
09:03:07 Rin Ran		38,055	6,660	11,179	55,893	55892.58
		36,942	2,065	8,502	42,509	42509.21
	1.00 JB	61,536	10,769	18.076	904,039	904039.06
09.03.95 Controls		351,432	61,501	103, 233	516,166	S
TOTAL Gate S14	1.00 EA	986, 143	172,575	289, 679	1,448,397	1448397
09.04 Gate S15						
		109,014	19,077	32,023	160,114	160,114 160113.61
		29,477	5, 158	8,659	43,294	43294.15
09.04.05 Gates		143,081	25,039	42,030	210,150	210150.34
09.04.07 Rin Ran		70, 129	12,273	20,600	103,002	103002.03
	1.00 EA	356,926	12,237	20,541	102,704	102,704 102704.46
		61.536	10,434	18 076		523396.89
	1.00 EA	386,585	67,652	113,559	567,796	567796.23
TOTAL Gate S15	1.00 EA	1,226,511	214, 639	360,288	1,801,438	1801438
09.05 Gate S16						
09.05.03 Concrete	1.00 EA	46.224	8,089	13.578	67 892	67891 96
09.05.04 Erosion Control System 09.05.06 Stop Logs	1.00 JB 1.00 EA	9,327	1,632	2,740	13,700	13,700 13699.55 103,002 103002.03

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
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1.00 EA TOTAL Gate S16 1.00 EA 1.00 EA 9.06 Gate S17 9.06.03 Concrete 9.06.04 Erosion Control System 9.06.05 Stop Logs 9.06.01 Electrical 9.06.11 Electrical 9.06.12 Equipment Building 1.00 EA 1.00 EA 1.00 EA 9.06.95 Controls 1.00 EA	1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA	20,711 146,392 146,392 29,487 62,485 35,065 17,430 59,406 61,536 410,020 742,923	3,624 25,619 25,619 11,813 5,158 10,935 10,396 10,396	6,084 43,003 19,830 8,659 118,355 110,300 5,120 17,451	30,420 215,013 99,148 43,294 91,719	30,420 30419.59
L Gate S16 ate S17 Concrete Erosion Control System Gates Rip Rap Equipment Building Controls Controls Concrete Controls Contr	1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA	146,392 29,485 29,485 35,065 17,430 59,406 61,536 410,020 742,923	25,619 11,813 5,158 10,935 6,136 10,396 10,396	19, 830 18, 659 118, 355 110, 300 5, 120	215,013 215,013 99,148 43,294 41,775	215013.13
Concrete 1.00		67, 505 29, 477 62, 485 35, 065 17, 430 59, 406 61, 536 410, 020 742, 923	11,813 5,158 10,935 6,136 3,050 10,396	19, 830 8,659 18,355 10,300 5,120	99,148 43,294 91,775	
Concrete Erosion Control System Gates Rip Rap Equipment Building L Gate S17 Concrete Erosion Control System Controls Controls Controls Stop Logs Rip Rap Erosion Control System Controls Control		67, 505 29, 477 62, 485 35, 065 11, 506 61, 536 410, 020 742, 923	11,813 5,158 10,935 6,136 3,050 10,396	19,830 8,659 18,355 10,300 5,120	99,148 43,294 91,775	
Erosion Control System 1.00 Gates		29,477 62,485 35,065 17,430 59,406 61,536 410,020 742,923	5, 158 10, 935 6, 136 3, 050 10, 396 10, 769	8,659 18,355 10,300 5,120 17,451	43,294	99148.27
Cates 1.00		67, 485 35, 065 17, 430 59, 406 61, 536 410, 020 742, 923	10,935 6,136 3,050 10,396 10,769	18,355 10,300 5,120 17,451	91.775	43294.15
No. No.		13, 430 13, 430 59, 406 61, 536 410, 020 742, 923	6, 136 3,050 10,396 10,769	10,300 5,120 17,451	1	91774.74
Electrical		59,406 61,536 410,020 742,923	10,396	17,451	51,501	51501.02
Equipment Building 1.00 Controls L Gate S17 1.00 L Gate S17 1.00 Erosion Control System 1.00 Gates 1.00 Stop Logs 1.00 Stop Logs 1.00 Stop Electrical 1.00 Equipment Building 1.00 Controls 1.00 Ate S18 1.00		61,536	10,769		87,253	87253.19
L Gate S17 1.00 ate 518 Concrete Erosion Control System 1.00 Gates Stop Logs Rip Rap Rap 1.00 Electrical 1.00 Equipment Building 1.00 Controls 1.00 L Gate S18 1.00		742, 923	77	18,076 120,443	90,381 602,216	90380.61
Concrete Erosion Control System 1.00 Gates 1.00 Stop Logs Rip Rap 1.00 Equipment Building 1.00 Controls 1.00 L Gate S18 1.00		9	130,012	218,234	1,091,169	1091169
Concrete Erosion Control System 1.00 Gates 1.00 Gates 1.00 Rip Rap 1.00 Electrical 1.00 Equipment Building 1.00 Controls 1.00 L Gate \$18 1.00		900				
Concrete Consion Control System 1.00 Gates Stop Logs Rip Rap 1.00 Electrical 1.00 Controls L Gate \$18 1.00 ate \$19		U C C				
Gates Stop Logs Rip Red 1.00 Electrical 1.00 Equipment Building 1.00 Controls 1.00 L Gate S18 1.00		00, 900	12,233	20,535	102,673	102673.05
Stop Logs 1.00 Rip Rap 1.00 Equipment Building 1.00 Controls 1.00 Gate S18 1.00 ate S19		15,403	2,696	4,525	22,623	22623.09
Rip Rap 1.00		36.424	6 374	10,500	51, 715	52707 10
Electrical 1.00 Equipment Building 1.00 Controls 1.00 L Gate S18 1.00 ate S19		17,188	3,008	5,049	25,245	25244 58
115 Equipment Building 1.00 95 Controls 1.00 OTAL Gate S18 1.00 Gate S19		356,774	62,435	104,802		524011.37
95 Controls 1.00 OTAL Gate S18 1.00 Gate S19		61,536	10,769	18,076		90380.61
OTAL Gate S18 1.00 Gate S19		408,449	71,479	119,982	599,910	599910.18
	1.00 EA	1,028,163	179,929	302,023	1,510,115	1510115
Concrete		54,274	9,498	15,943	79,714	79714.32
Erosion Control System 1.00		12,600	2,205	3,701		18506.74
1.00		73,386	12,843	21,557		107786.26
Stop Logs 1.00		27, 725	4,852	8,144	40,722	40721.73
Electrical		343 176	3,7214	100 000	1/6/97	26970.71
Equipment Building 1.00	1.00 JB	61,536	10,769	18,076		90380.61
		431,884	75,580	126,866	634,330	634330.14
TOTAL Gate S19	1.00 EA	1,022,944	179,015	300, 490	1,502,450	1502450
TOTAL Gated Culvert	1.00 EA	7,315,931	1,280,288	2,149,055	10,745,274	10745274

10 Sitework

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Sub Feat ** PROJECT C43RES:

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6,890 6890.26 202,748 202748.19 165,192 165192.23 286,254 2.21 2,789,908 2789908 935,378 935377.90 3725286 4386370 66,859,637 334,298,183 334298183 CONTINGN TOTAL COST UNIT COST 1197031 1197031 4,386,370 3,725,286 239,406 1,197,031 1,197,031 557,982 187,076 745,057 877,274 239,406 1,378 40,550 33,038 57,251 332,415 111,449 142,625 39,831,273 821 24,157 19,682 34,107 443,864 ESCALATN 142,625 522, 631 4,691 138,041 112,471 194,896 815,000 1,899,512 636,853 CONTRACT 2,536,365 2,986,465 1.00 EA 227,607,274 815,000 QUANTY UOM 1.00 EA 1.00 EA 1.00 EA 129402 LF 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 JB 10.20.01 Toe Road/Access Road Shell Rock 10.20.02 Asphalt Paving TOTAL C43 West Storage Reservoir 10.01 Vehicle Barrier Gate 10.02 Floating Safety Barrier 10.03 Floating Weed Barrier 10.10 Silt Fence 11.01 Power Line Relocation TOTAL Site Electrical TOTAL Access Road 11 Site Electrical 10.20 Access Road TOTAL Sitework

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

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U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - ASSEMBLY **

PROJECT C43RES:

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
				1		
01 Demolition						
01.01 Demo Large Pump Station 01.02 Demo Small Pump Station	1.00 EA 1.00 EA	14,659	2,565 4,923	4,306 8,264	21,531	21531.03 41319.08
TOTAL Demolition	1.00 EA	42,792	7,489	12,570	62,850	62850.12
02 Perimeter Dam, Separator Dam						
02.01 Clear and Grub	10365 AC	10.356.554	1 810 307	64.0		1
		1,419,791	248,463	3,042,238 417,064	2,085,318	1467.55
02.04 Toe Drain	192852 CY	9,989,350	1,748,136	2,934,371	14,671,857	76.08
	19772438 CY	59,873	206,303	346,294	1,731,470	16.23
02.06 Chimney Drain		524,360	91,763	154,031	770,153	5.91
02:07 Stuffy Wall		22,065,512	3,861,465	6,481,744	32,408,720	7.22
	174.00 TON	45,799,387	8,014,893	13,453,570	67, 267, 849	85.19
	41000 CY	414.874	72 603	65,129	13, 796	79.29
	234.00 AC	425,976	74,546	125.130	625,652	14.86
02.21 Sodding	250.00 AC	5,669,743	992,205	1,665,487	8, 327, 435	33309.74
02.95 Cell Instuments & Controls						
02.95.95 Controls	1.00 EA	44, 597	7,804	13,100	65,501	65501,47
TOTAL Cell Instuments & Controls	1.00 EA	44,597	7,804	13,100	65.501	65501.47
TOTAL Perimeter Dam, Separator Dam	1.00 EA	157.587.087	77 577 760			
						231436034
Us Kecreation Areas	1.00 EA	23,722	4,151	6,968	34,842	34842.14
04 Pump Stations						
04.01 Pump Station 1 - C43P1						
04.01.01 Pump Station 1						
04.01.01.01 Substructure						
04.01.01.01.01 Standard Foundations						
04.01.01.01.01.01 Wall Foundations	1.00 LF	985, 232	172,416	289,412	1,447,059	1447059
TOTAL Standard Foundations	1.00 SF	985,232	172,416	289,412	1,447,059	1447059
					•	

04.01.01.01.02 Special Foundation Conditions

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.01.01.01.02.04 Dewatering	1.00 SF	3,425,211	599, 412	1,006,156	5,030,779	5030779
TOTAL Special Foundation Conditions	ns 1.00 SF	3, 425, 211	599, 412	1,006,156	5,030,779	5030779
04.01.01.01.04 Foundation Excavation						
04.01.01.01.04.01 Excavation for Basements	1.00 CY	82,909	15,034	25,236	126,178	126,178 126178.41
TOTAL Foundation Excavation	1.00 CY	85,909	15,034	25,236	126,178	126,178 126178.41
IOTAL Substructure	1.00 SF	4,496,352	786,862	1,320,803	6,604,017	6604017
04.01.01.02 Superstructure						
04.01.01.02.01 Floor Construction						
04.01.01.02.01.03 Floor Decks and Slabs	100	25 607	900		i	
	, , , ,	463,324	81,082	136,101	680,507	5//2/.19 680506.67
	1.00	192,878	33,754	56,658	283,289	
04.01.01.02.01.52 Intake Bays EL -6 to EL -3.5 04.01.01.02.01.53 Pipe Gallery EL 10 to EL 22	1.00	152,870	26,752	44,906	224,528	
04.01.01.02.01.54 Intake Bays EL -3.5 to EL 7	1.00	312,387	54.668	151,249	756,247	756247.04
	1.00	287,379	50,291	84,418	422,089	
04.01.01.02.01.61 Pipe Gallery Slab EL 7 to EL 10	1.00	532,045	93,108	156,288	781,441	
04.01.01.02.01.62 Operating Deck Slab EL 22-E	1.00	547,720	95,851	160,893	804,464	
		117,684	20, 595	34,570	172,848	-
~		148,693	26.021	43.679	28, 345	58944./U
_		88,547	15,496	26,011	130,053	
04.01.01.02.01.75 Sand Fill	3730.00 CY	23, 624	4,134	6,940	34,698	
TOTAL Floor Construction	1.00 SF	3,447,861	603,376	1,012,809	5,064,046	5064046
04.01.01.02.02 Roof Construction						
04.01.01.02.02.01 Structural Frame 04.01.01.02.02.03 Roof Decks and Slabs	1.00 SF 1.00 SF	1,398,392	244,719 32,794	410,778	2,053,888 275,234	053,888 2053888 275,234 275234.44
TOTAL Roof Construction	1.00 SF	1,585,785	277,512	465,824	2, 329, 122	2329122
04.01.01.02.03 Stair Construction						
04.01.01.02.03.01 Interior Stair Structure	1.00 VLF	33,214	5,813	9,757	48,783	48783.50
TOTAL Stair Construction	1.00 FLT	33,214	5,813	9,757	48,783	48783.50
TOTAL Superstructure	1.00 SF	5,066,861	886,701	1,488,390	7,441,952	7441952

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.01.01.03 Exterior Closure						
04.01.01.03.01 Exterior Walls						
04.01.01.03.01.01 Exterior Skin 04.01.01.03.01.04 Parapets	29790 SF 1.00 LF	661,079 37,226	115,689 6,514	194,192	970,960	32.59
TOTAL Exterior Walls	1.00 SF	698,305	122,203	205,127	1,025,635	1025635
04.01.01.03.02 Exterior Windows						
04.01.01.03.02.01 Windows	1.00 SF	15,766	2,759	4,631	23,156	23155.63
TOTAL Exterior Windows	1.00 SF	15,766	2,759	4,631	23,156	23155.63
04.01.01.03.03 Exterior Personnel Doors						
04.01.01.03.03.02 Solid Doors	1.00 EA	15,869	2,777	4,662	23,308	23307.58
TOTAL Exterior Personnel Doors	1.00 EA	15,869	2,777	4, 662	23,308	23307.58
TOTAL Exterior Closure	1.00 SF	729, 939	127,739	214,420	1,072,098	1072098
04.01.01.04 Roofing						
04.01.01.04.01 Roofing						
04.01.01.04.01.01 Roof Coverings 04.01.01.04.01.06 Gutters and Downspouts	1.00 SF 1.00 LF	3,864 6,071	676 1,062	1,135	5,675	5674.78 8916.45
TOTAL Roofing	1.00 SF	9,934	1,739	2,918	14,591	14591.22
TOTAL Roofing	1.00 SF	9,934	1,739	2,918	14,591	14591.22
04.01.01.05 Interior Construction						
04.01.01.05.01 Partitions						
04.01.01.05.01.01 Fixed Partitions	1.00 SF	20,170	3,530	5, 925	29,624	29624.50
TOTAL Partitions	1.00 SF	20,170	3,530	5, 925	29, 624	29624.50
04.01.01.05.02 Interior Personnel Doors						
04.01.01.05.02.01 Standard Interior Doors	1.00 EA	12,486	2,185	3, 668	18, 339	18338.54
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		QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT	UNIT COST
TOTAL Inte	TOTAL Interior Personnel Doors	1.00 EA	12,486	2,185	3,668	18, 339	18338.54
04.01.01.05.04 Interio	Interior Specialties						
04.01.01.05.04.01 Guar	Guard Rails	1.00 EA	20,556	3,597	6,038	30,192	30192.14
TOTAL Inte	TOTAL Interior Specialties	1.00 SF	20,556	3,597	6,038	30,192	30192.14
TOTAL Inte	TOTAL Interior Construction	1.00 SF	53,212	9,312	15,631	78,155	78155.18
04.01.01.06 Interior Finishes	Finishes						
04.01.01.06.01 Wall Fi	Finishes						
04.01.01.06.01.04 Tile 04.01.01.06.01.05 Paint	Tile and Terrazzo Wall Finishes Painting to Wall	1.00 SF 1.00 SF	7,339	1,284 6,903	2,156 11,588	10,779	10779.33
TOTAL Wall	TOTAL Wall Finishes	1.00 SF	46,787	8, 188	13,744	68,718	68717.98
04.01.01.06.02 Floorin	Flooring and Floor Finishes						
04.01.01.06.02.01 Tile 04.01.01.06.02.08 Pain	Tile Floor Finishes Painting and Staining Floors	1.00 SF 1.00 SF	2,995	524 1,475	880	4,399 12,380	4399.33
TOTAL Floo	Flooring and Floor Finishes	1.00 SF	11,424	1,999	3,356	16,779	16779.36
04.01.01.06.03 Ceiling	Ceiling and Ceiling Finishes						
04.01.01.06.03.04 Acou	Acoustical Ceiling Tiles & Panel Painting and Staining Ceilings	1.00 SF 1.00 SF	3,361 33,779	588 5,911	987	4,937 49,613	4936.76 49613.23
TOTAL Ceil	TOTAL Ceiling and Ceiling Finishes	1.00 SF	37,140	6,500	10,910	54,550	54549.99
TOTAL Inte	IOTAL Interior Finishes	1.00 SF	95,351	16,686	28,009	140,047	140,047 140047.34
04.01.01.07 Mechanical	1						
04.01.01.07.10 Piping							
04.01.01.07.10.01 Drai 04.01.01.07.10.02 Vacu 04.01.01.07.10.03 Cool 04.01.01.07.10.04 Wast 04.01.01.07.10.05 Lube 04.01.01.07.10.06 Lube 04.01.01.07.10.07 Pota	Drainage System Vacuum Priming System Cooling Mater Supply System Waste Fuel & Engine Oil System Lube Oil Supply System Lubricating Mater Supply System Potable/Service Water Supply System	1.00 LF 1.00 LF 1.00 LF 1.00 LF 1.00 LF 1.00 LF	1,544,429 418,104 678,949 286,715 112,018 28,398 10,339	270, 275 73, 168 118, 816 50, 175 19, 603 4, 970 1, 809	453, 676 122, 818 199, 441 84, 223 32, 905 8, 342 3, 037	2,268,380 614,090 997,206 421,113 164,526 41,710 15,186	2268380 614089.80 997206.00 421113.33 164526.32 41709.79

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04.01.01.07.10.08 Compressed Air System	1.00 LF	38,418	6,723	11, 285	56, 427	56426.92
TOTAL Piping	1.00 LF	3,117,371	545,540	915,728	4,578,638	4578638
TOTAL Mechanical	1.00 EA	3,117,371	545,540	915,728	4,578,638	4578638
04.01.01.08 Plumbing						
04.01.01.08.01 Plumbing Fixtures						
04.01.01.08.01.01 Waterclosets 04.01.01.08.01.03 Lavatories	1.00 EA	1,772	310	520	2,602	2601.99
01.05	1.00 EA	1,357	237	398	1,403	1992.37
04.01.01.08.01.09 Kitchen Sink	1.00 EA	2,215	388	651	3,253	3253.49
TOTAL Plumbing Fixtures	1.00 EA	8,225	1,439	2,416	12,080	12080.14
04.01.01.08.02 Domestic Water Supply						
04.01.01.08.02.01 Pipes and Fittings	1.00 EA	4,620	808	1,357	6,786	6785.77
TOTAL Domestic Nater Supply	1.00 EA	4,620	808	1,357	6,786	6785.77
04.01.01.08.03 Sanitary Waste and Vent System						
04.01.01.08.03.01 Waste Pipe and Fittings 04.01.01.08.03.03 Floor Drains	1.00 EA	2,196	384 372	645 625	3,225	3225.33
TOTAL Sanitary Waste and Vent System	1.00 EA	4,323	757	1,270	6,350	6349.95
04.01.01.08.05 Plumbing Equipment						
04.01.01.08.05.01 Domestic Water Equipment	1.00 EA	629	110	185	924	923.83
TOTAL Plumbing Equipment	1.00 EA	629	110	185	924	923.83
TOTAL Plumbing	1.00 EA	17,797	3,115	5,228	26,140	26139.70
04.01.01.09 HVAC						
04.01.01.09.04 Distribution Systems						
04.01.01.09.04.01 Air Distribution, Cooling and	1.00 MCF	787,142	137,750	231,223	1,156,114	1156114
TOTAL Distribution Systems	1.00 MBH	787,142	137.750	031 003	1 156 110	115611

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			NI UTUOOT	COLAT TINGIA	TOTAL COST UNIT COST	TTNO
04.01.01.09.06 Controls and Instrumentation					 	1
04.01.01.09.06.90 Controls	1.00 EA	551,157	96,452	161,902	809,511	809511.33
TOTAL Controls and Instrumentation	1.00 MBH	551,157	96,452	161,902	809,511	809511.33
TOTAL HVAC	1.00 MBH	1,338,298	234,202	393,125	1,965,626	1965626
04.01.01.11 Electric Power And Lighting						
04.01.01.11.01 Service and Distribution						
04.01.01.11.01.03 Main Switchboards 04.01.01.11.01.04 Interior Distrib. Transformers 04.01.01.11.01.07 Motor Control Centers	1.00 AMP 1.00 AMP 1.00 AMP	66,835 9,258 414,531	11,696 1,620 72,543	19, 633 2, 719 121, 769	98,164 13,597 608,843	98164.12 13597.12 608843.00
TOTAL Service and Distribution	1.00 AMP	490,624	85,859	144,121		720604.23
04.01.01.11.02 Lighting and Branch Wiring						
04.01.01.11.02.02 Lighting Equipment	1.00 EA	215,403	37,695	63, 275	316,373	316372.62
TOTAL Lighting and Branch Wiring	1.00 SF	215,403	37,695	63,275	316,373	316372.62
TOTAL Electric Power And Lighting	1.00 AMP	706,027	123,555	207,395	1,036,977	1036977
04.01.01.12 Electrical Systems						
04.01.01.12.01 Communication, Security & Alarm						
04.01.01.12.01.01 Fire Alarm Systems 04.01.01.12.01.07 Television Systems 04.01.01.12.01.08 Security Systems	1.00 OUT 1.00 OUT 1.00 SYS	50,599 61,600 38,624	8,855 10,780 6,759	14,863 18,095 11,346	74,317 90,475 56,728	74316.85 90475.16 56728.39
TOTAL Communication, Security & Alarm	1.00 SF	150,822	26,394	44,304	221,520	221520.41
04.01.01.12.02 Special Electrical Systems						
04.01.01.12.02.01 Instuments & Controls	1.00 EA	29,679	5, 194	8,718	43,592	43591.55
TOTAL Special Electrical Systems	1.00 SF	29,679	5,194	8,718	43,592	43591.55
TOTAL Electrical Systems	1.00 SF	180,502	31.588	53 000		2001111

04.01.01.13 Equipment

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	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.01.01.13.01 Fixed and Moveable Equipment						
04.01.01.13.01.85 Bridge Crane 04.01.01.13.01.90 Stop Logs 04.01.01.13.01.91 Elevator	1.00 EA 1.00 SF 1.00 EA	839,930 27,181 65,729	146,988 4,757 11,502	246,729 7,985 19,308	1,233,647 39,923 96,539	1233647 39922.71 96538.81
TOTAL Fixed and Moveable Equipment	1.00 SF	932,840	163,247	274,022	1,370,108	1370108
TOTAL Equipment	1.00 SF	932,840	163,247	274,022	1,370,108	1370108
TOTAL Pump Station 1		16,744,484	2,930,285	4,918,692	24, 593, 461	
04.01.02 Equipment						
		3,807,817	666,368	1,118,546	5, 592, 731	
04.01.02.02 Pump Engine		9,058,304	1,585,203	2,660,877	13, 304, 383	
		83,208	20,942	35, 152	175,759	
		150,543	26,345	44,222	221,110	
		456,314	79,855	134,042	670,211	
04.01.02.07 Lube Oil Pumps		90,076	15,763	26,460	132,300	
_		27,765	4.859	21,980	109,901	
		162,981	28,522	47,876	239,378	
04.01.02.20 Irash Rake 04.01.02.21 Auxillary Bay Trash Screen	1.00 EA	3,865,795	676,514	1,135,577	5,677,886	677,886 5677886
		1				100
IOTAL Equipment		18,179,209	3,181,362	5,340,143	26,700,714	
04.01.03 Trash Handling System Bridge						
		7,022	1,229	2,063	10,314	
		12, 117	2,121	3,559	17,797	
04.01.03.03 Approach Stabs		18,849	3,299	5,537	27,685	
		40,6/9	7,119	11,949	59,747	
		19,500	3,412	5, 728	28.640	
04.01.03.07 Steel Guardrail		9,344	1,635	2,745	13,724	
TOTAL Trash Handling System Bridge		181,856	31,825	53,420	267,102	
04.01.04 Siphon Break Structure						
04.01.04.01 Side Walls		195.846	34.273	57.530	287 649	
04.01.04.02 Bottom Slab		639,260	111,871	187,783	938, 913	
		3,627	9, 703	16,287	81,433	
04.01.04.05 Guardrail		7,475	1,308	2,196	10,979	

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.01.04.06 Waterstop		4,977	871	1,462	7,310	
TOTAL Siphon Break Structure		906, 630	158,660	266, 322	1,331,612	
04.01.05 Saxophone Discharge						
04.01.05.01 Excavation 04.01.05.02 Cofferdam 04.01.05.03 Backfilling		4,002 1,093,179 7,307	700 191,306 1,279	1,175 321,121 2,146	5,877 1,605,607 10,732	
TOTAL Saxophone Discharge		1,104,487	193,285	324,443	1,622,216	
	1.00 JB	29,324	5,132	8,614	43,070	43070.32
04.01.07 Sheet Pile Retaining Wall 04.01.08 Earthwork Final Grading	1.00 JB	3,099,209	542,362	910,393	4,551,964	4551964
		23,843	38,353	64,379	321,894	35019.29
04.01.10 Concrete Paved Ditch		8,524	1,492	2,504	12,519	147.28
	240430 CY	192, 923	33,761	56,671	283,355	1.18
	1.00 EA	19,797	3,465	5,815	29,077	29077.20
TOTAL Pump Station 1 - C43P1	1.00 EA	40,726,441	7,127,127	11,963,392	59, 816, 961	59816961
04.02 Pump Station 4 - C43P4						
04.02.01 Pump Station 4 - C43P4						
04.02.01.01 Substructure						
04.02.01.01.02 Special Foundation Conditions						
04.02.01.01.02.04 Dewatering	1.00 SF	268,853	47,049	78,976	394,878	394,878 394877.86
TOTAL Special Foundation Conditions	1.00 SF	268,853	47,049	78,976	394,878	394,878 394877.86
04.02.01.01.04 Foundation Excavation						
04.02.01.01.04.01 Excavation for Foundation	1.00 CY	3,210	562	943	4,714	4714.14
TOTAL Foundation Excavation	1.00 CY	3,210	562	943	4,714	4714.14
TOTAL Substructure	1.00 SF	272, 063	47,611	79,918	399, 592	399,592 399592.00
04.02.01.02 Superstructure						

04.02.01.02.03 Stair Construction

CREW ID: NAT01A UPB ID: UP01EA

EQUIP ID: C43RES LABOR ID: C43RES

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	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.02.01.02.03.01 Interior Stair Structure	1.00 VLF	1,627	285	478	2,390	2389.88
TOTAL Stair Construction	1.00 FLT	1,627	285	478	2,390	2389.88
TOTAL Superstructure	1.00 SF	1,627	285	478	2,390	2389.88
04.02.01.03 Exterior Closure						
04.02.01.03.01 Exterior Walls						
04.02.01.03.01.01 Exterior Skin 04.02.01.03.01.03 Interior Skin	1.00 SF 1.00 SF	10,717 2,187	1,876	3,148	15,741	15740.84 3212.51
TOTAL Exterior Walls	1.00 SF	12,904	2,258	3,791	18,953	18953.36
04.02.01.03.03 Exterior Personnel Doors						
04.02.01.03.03.02 Solid Doors	1.00 EA	8, 308	1,454	2,440	12,202	12202.05
TOTAL Exterior Personnel Doors	1.00 EA	8,308	1,454	2,440	12,202	12202.05
TOTAL Exterior Closure	1.00 SF	21,212	3,712	6,231	31,155	31155.41
04.02.01.04 Roofing						
04.02.01.04.01 Roofing						
04.02.01.04.01.01 Roof Coverings 04.02.01.04.01.05 Roofing Openings & Supports 04.02.01.04.01.06 Gutters and Downspouts	1.00 SF 1.00 SF 1.00 LF	53,701 1,700 1,732	9,398 297 303	15,775 499 509	78,873 2,497 2,544	78873.37 2496.60 2544.36
TOTAL Roofing	1.00 SF	57,133	866'6	16,783	83,914	83914.34
TOTAL Roofing	1.00 SF	57,133	866'6	16,783	83,914	83914.34
04.02.01.05 Interior Construction						
04.02.01.05.02 Interior Personnel Doors						
04.02.01.05.02.01 Standard Interior Doors	1.00 EA	2,542	445	747	3,734	3733.59
TOTAL Interior Personnel Doors	1.00 EA	2,542	445	747	3,734	3733.59
04.02.01.05.04 Interior Specialties						
04.02.01.05.04.01 Guard Rails	1.00 EA	15,158	2,653	4,453	22,263	22262.89

CREW ID: NAT01A UPB ID: UP01EA

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.02.01.05.04.03 Stairs & Ladders	1.00 SF	33,214	5,812	757,6	48,783	48783.46
TOTAL Interior Specialties	1.00 SF	48,372	8,465	14,209	71,046	71046.35
TOTAL Interior Construction	1.00 SF	50,914	8,910	14,956	74,780	74779.94
04.02.01.09 HVAC						
04.02.01.09.04 Distribution Systems						
04.02.01.09.04.01 Air Distribution, Cooling and	1.00 MCF	26,871	4,702	7,893	39,466	39466.28
TOTAL Distribution Systems	1.00 MBH	26,871	4,702	7,893	39,466	39466.28
04.02.01.09.06 Controls and Instrumentation						
04.02.01.09.06.90 Controls	1.00 EA	56,648	9,913	16,640	83,202	83202.47
TOTAL Controls and Instrumentation	1.00 MBH	56,648	9,913	16,640	83,202	83202.47
TOTAL HVAC	1.00 MBH	83,519	14,616	24,534	122, 669	122,669 122668.75
04.02.01.11 Electrical						
04.02.01.11.01 Service and Distribution						
04.02.01.11.01.9X Service And Distribution		233,508	40,864	68, 593	342,965	
TOTAL Service and Distribution	1.00 AMP	233,508	40,864	68,593	342,965	342965.38
TOTAL Electrical	1.00 AMP	233,508	40,864	68, 593	342,965	342965.38
TOTAL Pump Station 4 - C43P4		719,917	125,996	211,493	1,057,466	
04.02.02 Equipment						
04.02.02.01 Barrel Pump & Motor	3.00 3A	2,024,227	354,240	594,617	2,973,083 991027.77	991027.77
TOTAL Equipment	,	2,024,227	354,240	594,617	2,973,083	
04.02.04 Intake Structure						
04.02.04.01 Footing 04.02.04.02 Abutments, Piers, Backwall 04.02.04.03 Intake Noses	1.00 EA 1.00 EA 1.00 EA	257,152 724,930 2,401	45,002 126,863 420	75,538 212,948 705	377,692 1,064,740 3,527	377691.79 1064740 3526.99

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
04.02.04.04 Keyway	1.00 EA	4,546	961	1,335	6,677	6676.62
TOTAL Intake Structure	,	989,029	173,080	290,527	1,452,636	
04.02.05 Pump House/ Discharge Structure						
04.02 07.07 (Lew 11.02)		,				
		36,880	6,454	10,834	54,168	
		71 903	4,453	7,474	37,369	
04.02.05.04 Columns		32,196	5,534	21,122	105,608	
		46,603	8,156	13.690	47,209	
		56,388	898'6	16,564	82.819	
		58,302	10,203	17,126	85,631	
04.02.03.09 Intake Slab		16,478	2,884	4,841	24,203	
04.02.05.11 Equipment Pads		4,082 1,235	714	1,199	5,996	
TOTAL Pump House/ Discharge Structure	,	349,510	61,164	102.669	513.343	
,					01010	
04.02.10 Sitework		89,002 976,418	15,575	26,144	130,722	
TOTAL Pump Station 4 - C43P4	•	5,148,162	900,928	1,512,273	7,561,363	
and test amid 16TOT						
TOTAL Paint SCACIOUS	1.00 EA	45,874,603	8,028,056	13, 475, 665	67,378,323	67378323
05 Main Outlet Structure						
05.01 Gate S1						
05.01.02 Sheet Piling	1.00 EA	11,229	1,965	3, 299	16,493	16493.08
05.01.03 Concrete						
05.01.03.01 Conduits						
05.01.03.01.10 Typical Conduit						
05.01.03.01.10.01 Base Slab		66,822	11,694	19,629	98,145	98145.33
10.03	1.00 EA	3,729	653	1,095	5,477	5476.71
10.04		58,470	10,232	17,175	85,877	85877.47
TOTAL Typical Conduit	1.00 EA	209,831	36,720	61,638	308,189	308189.00
05.01.03.01.15 Conduit at Gatewell						
05.01.03.01.15.01 Base Slab	1.00 EA	22,863	4,001	6,716	33,581	33580.67

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

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PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
05.01.03.01.15.02 Top Slab 05.01.03.01.15.03 Walls	1.00 EA 1.00 EA	22,784 29,145	3,987	6,693	33,464	33464.11
TOTAL Conduit at Gatewell	1.00 EA	74,793	13,089	21,970	109,852	109851.65
TOTAL Conduits	1.00 EA	284,623	49,809	83, 608	418,041	418,041 418040.65
05.01.03.02 Gatewell						
05.01.03.02.10 Gatewell						
05.01.03.02.10.01 Walls (I to Flow) 05.01.03.02.10.02 Walls (II to Flow) 05.01.03.02.10.03 Air Vent Castings	1.00 EA 1.00 EA 1.00 EA	27,219 18,017 1,451	4,763 3,153 254	7,995 5,292 426	39, 977 26, 462 2, 131	39977.35 26462.35 2131.22
TOTAL Gatewell	1.00 EA	46,687	8,170	13,714	68,571	68570.91
TOTAL Gatewell	1.00 EA	46,687	8,170	13,714	68,571	68570.91
05.01.03.03 Intake						
05.01.03.03.01 Intake						
05.01.03.03.01.01 Base Slab		59,944	10,490	17,609	88,043	88043.29
05.01.03.03.01.02 Top Girders	1.00 EA	5,056	885	1,485	7,425	7425.44
,		3, 229	5 160	948	4,742	4742.21
,		42,640	7,462	12,525	62,627	62626.97
05.01.03.03.01.06 Transition To Conduit		8,620	1,509	2,532	12,661	12661.15
05.01.03.03.01.07 Iransition to Conduit 05.01.03.03.01.08 Walls (II to Flow)	1.00 EA	830	145	244	1,219	1219.02
		8,665	1,516	2.545	12,726	12726.02
05.01.03.03.01.10 Center Columns	1.00 EA	3,109	544	913	4,566	4565.84
TOTAL Intake	1.00 EA	203,811	35, 667	59,870	299,348	299348.03
TOTAL Intake	1.00 EA	203,811	35, 667	59,870	299,348	299348.03
05.01.03.04 Stilling Basin						
05.01.03.04.01 Stilling Basin Parabolic						
05.01.03.04.01.01 Walls 05.01.03.04.01.02 Base Slab	1.00 EA	32,588	5,703	9,573	47,864	47863.98
	1.00 EA 1.00 EA	1,411	2,020	4,1,0 414 3,391	2,072	2071.69 16954.93
TOTAL Stilling Basin Parabolic	1.00 EA	59,766	10,459	17,556	87,782	87781.98

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Almy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
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** PROJECT OWNER SUMMARY - Assembly **

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	MOLI VINALIO	E C COLLEGE				
	HOO TINCO	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
05.01.03.04.02 Stilling Hydraulic Jump Basın						; ; ; ;
05.01.03.04.02.01 Walls	1.00 EA	42.516	7 440	10 400		
05.01.03.04.02.02 Base Slab		707 30	000	605 177	054,20	
		201,01	004,4	066'/		m
	5 6 6	0 # 0 % 7	233	394	1,972	
05.01.03.04.02.05 Baffle Blocks	1.00 EA	624	109	183	917	916.56
	1.00 EA	0/9	117	197	984	984.36
	1.00 EA	1,302	228	382	1,912	1911.83
05.01.03.04.02 08 Bridge Stab	1.00 EA	988'6	1,730	2,904	14,520	14519.86
	1.00 EA	636	111	187	934	933.98
TOTAL Stilling Hydraulic Jump Basin	1.00 EA	82,680	14,469	24,287	121,436	121435.87
TOTAL Stilling Basin	1.00 EA	142,446	24,928	41,844	209,218	209217.85
TOTAL Concrete	1.00 EA	677,568	118,574	199,035	995,177	995,177 995177.44
05 01 04 miss and 10 miss and					•	
05:01:04 Alp Rap 05:01:05 Gates	1.00 EA	41,625	7,284	12,227	61,137	61137.13
		536,029	163, 739	157 759	1,374,241	1374241
05.01.15 Equipment Building	1.00 JB	61,536	10,769	18,076	90,381	90380 61
		92,477	16,183	27,165	135,825	135825.38
05.01.95 Controls	1.00 EA	60,910	10,659	17,892	89,461	89460.90
TOTAL Gate S1	1.00 EA	2,417,027	422,980	710,002	3,550,009	3550009
05.04 Gate S8						
05 04 05 04 05 04	;					
	1.00 EA	11,229	1,965	3,299	16,493	16493.08
TOTAL Sheet Piling	1.00 EA	11,229	1,965	3,299	16,493	16493.08
05.04.03 Concrete						
05.04.03.01 Conduits						
05.04.03.01.10 Typical Conduit						
		66,822	11,694	19,629	98.145	
.02		3,729	653	1,095	5,477	
05.04.03.01.10.03 Top Slab		72,344	12,660	21,251	106,255	
	,	58,470	10,232	17,175	85,877	
TOTAL Typical Conduit		201,365	35,239	59, 151	295,754	
05.04.03.01.15 Conquit at Gatewell						
05.04.03.01.15.01 Base Slab		24,216	4.238	7.114	25.5	
		•		F 1 1 1 2 2	000 100	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Mater Management 30% Submittal ** PROJECT OWNER SUPMARY - Assembly ** PROJECT C43RES:

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90352.56 7435.77 4894.63 38281.49 55206.74 12877.51 1240.66 54841.51 12920.74 4565.84 46139.13 20960.70 2093.32 17072.30 407,593 407592.70 282,617 282617.45 86265.45 TOTAL COST UNIT COST 282,617 282617.45 90,353 7,436 4,895 38,281 55,207 12,878 46,139 20,961 2,093 17,072 33,464 42,807 1,241 54,842 12,921 4,566 37,352 22,602 1,767 111,839 61,721 86,265 61,721 CONTINGN 6,693 22,368 7,470 4,520 353 7,656 11,041 2,576 2,876 10,968 9,228 4,192 419 3,414 12,344 56,523 81,519 12,344 17,253 10,765 886 583 4,561 6,578 1,534 1,534 1,539 1,539 3,987 5,100 5,497 2,497 249 2,034 4,450 2,693 211 33,674 10,278 ESCALATN 13,325 7,354 7,354 48,564 33,674 22,784 29,145 76,145 277,510 25,431 15,388 1,203 42,023 42,023 61,517 5,063 3,333 26,064 37,588 8,768 8,768 8,797 3,109 31,414 14,271 1,425 11,624 11,624 58,734 CONTRACT 192,420 192,420 QUANTY UOM 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA EA 1.00 EA ΕÀ EA 1.00 1.00 1.00 Base Slab
Top Girders
Top Beams
Headwall
Backside Intake Double Wall
Transition To Conduit Walls (II to Flow) Divider Wall (II to Flow) TOTAL Stilling Basin Parabolic 05.04.03.04.01 Stilling Basin Parabolic TOTAL Conduit at Gatewell 05.04.03.02.10.01 Walls (I to Flow) 05.04.03.02.10.02 Walls (II to Flow) 05.04.03.02.10.03 Air Vent Castings Center Columns 05.04.03.04.01.01 Walls 05.04.03.04.01.02 Base Slab 05.04.03.04.01.03 Shear Key 05.04.03.04.01.04 Top Slab 05.04.03.01.15.02 Top Slab 05.04.03.01.15.03 Walls 05.04.03.04 Stilling Basin TOTAL Conduits TOTAL Gatewell TOTAL Gatewell TOTAL Intake TOTAL Intake 05.04.03.02.10 Gatewell 05.04.03.03.01 Intake 05.04.03.02 Gatewell 05.04.03.03.01.01 B
05.04.03.03.01.02 T
05.04.03.03.01.03 T
05.04.03.03.01.04 H
05.04.03.03.01.06 T
05.04.03.03.01.07 T
05.04.03.03.01.09 M
05.04.03.03.01.09 W 05.04.03.03 Intake

> EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

UPB ID: UP01EA CREW ID: NATO1A

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
05.04.03.04.02 Stilling Hydraulic Jump Basın						
05.04.03.04.02.01 Walls	1.00 EA	40,426	7,074	11.875	59, 375	59374 95
	1.00 EA	25,782	4,512	7,574	37,868	37867.59
••	1.00 EA	1,425	249	419	2,093	2093.32
_	1.00 EA	624	109	183	917	916.56
_	1.00 EA	670	117	197	984	984.36
		1,302	228	382	1,912	1911.83
	1.00 EA	9,917	1,736	2,913	14,566	14566.06
vs.v4.vs.v4.vz.v8 Bridge Slab Sills	1.00 EA	636	111	187	934	933.98
TOTAL Stilling Hydraulic Jump Basin	1.00 EA	80,782	14,137	23,730	118,649	118,649 118648.66
TOTAL Stilling Basin	1.00 EA	139,516	24,415	40,983	204,914	204,914 204914.11
TOTAL Concrete	1.00 EA	651,469	114,007	191,369	956,845	956,845 956845.00
		41,625	7,284	12,227	61,137	61137.13
US.U4.US Gates	1.00 EA	935, 437	163,701	274,784	1,373,922	1373922
	1.00 EA	536,029	93,805	157,459		7
		61,536	10,769	18,076	90,381	90380.61
	1.00 EA	90,750	15,881	26,658	133,289	133289.01
US.U4.95 Controls	1.00 EA	200,676	35,118	58,949	294,743	294742.52
00 1120 1450F			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

06 Balancing Structure

TOTAL Main Outlet Structure

TOTAL Gate S8

3,714,103 3714103

742,821

442,531 865,511

2,528,751 4,945,778

> 1.00 EA 1.00 EA

7264112

7,264,112

1,452,822

06.01 Gate S12

06.01.03 Concrete

06.01.03.01 Conduits

06.01.03.01.10 Typical Conduit

06.01.03.01.10.01 Base Slab 06.01.03.01.10.02 Center Haunch 06.01.03.01.10.03 Top Slab 06.01.03.01.10.04 Walls

135,364 10,524 163,940 108,172

27,073 2,105 32,788 21,634

16,128 1,254 19,533 12,889

92,163 7,165 111,619 73,649

284,595

417,999

83,600

TOTAL Typical Conduit

06.01.03.01.15 Conduit at Gatewell 06.01.03.01.15.01 Base Slab 06.01.03.01.15.02 Top Slab UPB ID: UP01EA CREW ID: NAT01A

51,585 47,470

10,317 9,494

6,146 5,656

35,122 32,320

EQUIP ID: C43RES

LABOR ID: C43RES

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	NIT COST
06.01.03.01.15.03 Walls			7,405	12,430	62,152	
TOTAL Conduit at Gatewell	,	109,758	19, 208	32,242	161,208	
TOTAL Conduits	1.00 EA	394,354	69,012	115,841	579,207	579,207 579206.75
06.01.03.02 Gatewell						
06.01.03.02.10 Gatewell						
06.01.03.02.10.01 / Walls (I to Flow) 06.01.03.02.10.02 Walls (II to Flow) 06.01.03.02.10.03 Air Vent Castings		43,168 23,859 2,881	7,554 4,175 504	12, 681 7, 009 846	63, 403 35, 044 4, 232	
TOTAL Gatewell	r	69, 909	12,234	20,536	102,679	
TOTAL Gatewell		606'69	12,234	20,536	102,679	
06.01.03.04 Stilling Basin 1						
06.01.03.04.01 Stilling Basin Parabolic						
06.01.03.04.01.01 Walls 06.01.03.04.01.07 Race slah	1.00 EA	25, 534	4,469	7,501	37,503	37503.49
	1.00 EA	1,855	325	6,058 545	30, 289 2, 725	30289.34 2725.18
	1	0/1/2	4,109	1.68 '9	34,483	34482.70
IOIAL Stilling Basin Parabolic	1.00 EA	71,490	12,511	21,000	105,001 105000.70	05000.70
06.01.03.04.02 Stilling Hydraulic Jump Basın						
01	1.00 EA	11,176	1,956	3,283	16.415	16415 35
06.01.03.04.02.02 Interior Short Walls	1.00 EA	1,400	245	411	2,056	2055.99
.04	1.00 EA	32,880	5,754	9,658	48,292	48292.16
05 Chute Blocks 06 Baffle Blocks	1.00 EA 1.00 EA	332	58 58 169	284	1,421	487.77
TOTAL Stilling Hydraulic Jump Basin	1.00 EA	59, 525	10,417	17,486	87,428	87427.52
TOTAL Stilling Basın i	1.00 EA	131,015	22,928	38,486	192,428 192428.23	92428.23
06.01.03.05 Stilling Basin 2						
06.01.03.05.01 Stilling Basin Parabolic						
06.01.03.05.01.01 Walls	1.00 EA	25,534	4,469	7,501	37,503	37503.49

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
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** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST INIT COST	TOOO TIME
.01.02	1.00 EA	20.623	2000		!	
06.01.03.05.01.03 Shear Key 06.01.03.05.01.04 Top Slab		1,855	325	545	2,725	2725.18
TOTAL Stilling Basin Darabolic					201115	04487.10
	I.UU EA	71,490	12,511	21,000	102,001	105,001 105000.70
06.01.03.05.02 Stilling Hydraulic Jump Basin						
06.01.03.05.02.01 Extension Mella						
02.02		11,176	1,956	3,283	16,415	16415.35
.02.03 Base Slab	1.00 EA	32.880	7 757	411	2,056	2055.99
	1.00 EA	12,770	2,235	3, 751	18,292	18755 20
06.01.03.03.02.06 Baffle Blocks	1.00 EA	332	58	866	488	487.77
			F01	284	1,421	1420.85
TOTAL Stilling Hydrautic Jump Basin	1.00 EA	59,525	10,417	17,486	87,428	87427.52
TOTAL Stilling Basin 2	1.00 EA	131,015	22,928	38,486	192,428	192428.23
TOTAL Concrete	1.00 EA	726, 292	127,101	213, 348	1,066,742	1066742
	1 6	000		;		
		444,201	45,907	130 484	385, 294	385294.22
U6.01.15 Equipment Building		61,536	10,769	18,076	90,381	90380.92
06.01.95 Controls	1.00 EA	82,655	14,465	24,280	121,400	121399.97
		979 7007	35, 118	58,949	294,743	294742.52
TOTAL Gate S12	1.00 EA	1,777,689	311,096	522,196	2,610,980	2610980
TOTAL Balancing Structure	1.00 EA	1,777,689	311,096	522,196	2,610,980	2610980
07 Perimeter Canal Structures						
ç						
over cace as						
07.01.01 Excavation 07.01.02 Sheet Piling	1.00 JB 1.00 EA	2,762	483	811	4,057	4057.00
07.01.03 Concrete						
07.01.03.01 Slab On Grade						
	1.00 EA	13,061	2.286	3 837	01	7. 60.01
07.01.03.01.02 Koadway Approach Slab 07.01.03.01.03 Apron Slab	1.00 EA 1.00 EA	3,526 30,328	617 5,307	1,036	5,179	5178.60
TOTAL Slab On Grade	1.00 EA	46 915	0100			
			01210	13, 781	906 '89	68905.72

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
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0.01.03.02 WALLS 0.7.01.03.02.01 Abutmant Upatream 0.01.01.03.02.01 Abutmant Upatream 0.01.03.02.01 Abutmant Upatream 0.01.03.02.01 Abutmant Upatream 0.01.03.02.02 Abutmant Upatream 0.01.03.02.03 Abutmant Upatream 0.01.03.02.03 Abutmant Upatream 0.01.03.02.03 Distriction plant						
Abutment Dwistream 1.00 EA 176,604 30,906 51,877 259,387 258 Abutment Dwistream 1.00 EA 21,300 1,725 1,726 1						
1.00 EA 21,310 37,22 6,557 31,284 21		176,604	30.906	718 15	750 307	00000
1.00 EA 5.876 1.028 1.775 1.038 1.775 1.038 1.028 1.028 1.028 1.028 1.038 1.028 1.038 1.028 1.038 1.	1.00 EA	21,300	3,727	6,257	31,284	31283
The first of all all all all all all all all all al	1.00 EA	5,876	1,028	1,726	8,630	8630
Head Walls TAL Walls TAL Walls TAL Walls TAL Walls TAL Walls TAL Walls TAL Walls TAL Walls TO EA TO EA TO EA TO EA TO EA TO EA TO EA TO EA TO EA TO EA TO EA TO EA TAL SINI TO EA TAL SINI TAL SINI TAL SINI TAL SINI TAL SINI TAL SINI TAL BAFFLes TAL SINI TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL ELevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL Elevated Slabs TAL TAL El	1.00 EA	10, 142	1,775	2,979	14,896	14895
1.00 EA 229,988 40,248 67,559 337,795 337,79	1.00 EA	9,687	1,695	1,8/4 2,846	9,371	9370 14228
1.00 EA 599 105 176 880 176 880 176 880 178 574 178 574 178 574 178 574 178 574 178 574 178 574 178 574 178		229, 988	40,248	67,559	337,795	337795
End Sill End Sill 1.00 EA 599 105 175 880 TAL Sill 1.00 EA 391 68 115 574 115 574 TAL Sill 1.00 EA 852 149 250 1,252 1 Efles 1.00 EA 852 149 250 1,252 1 Paffles 1.00 EA 852 149 250 1,252 1 Patfles 1.00 EA 852 149 250 1,252 1 Patfles 1.00 EA 15,937 2,789 4,682 23,408 3 Patfles 1.00 EA 2,713 475 475 3,984 3 PAL Elevated Slabs 1.00 EA 19,455 3,405 5,715 28,574 28 PRE-85E Wall 1.00 EA 2,117 371 622 3,110 3 PRE-85E Wall 1.00 EA 2,117 371 622 3,110 3 PRIS Capp 1,484						
This sill	1.00 EA 1.00 EA	599 391	105	176	880	879.97
Eaffles 1.00 EA 852 149 250 1,252 FAL Baffles 1.00 EA 852 149 250 1,252 FAL Baffles 1.00 EA 15,937 2,789 4,682 23,408 FORMWAY 1.00 EA 2,713 475 3,984 3,984 Operating Platform 1.00 EA 19,455 3,405 5,715 28,574 RAL Elevated Slabs 1.00 EA 2,117 371 622 3,110 FAL Elevated Slabs 1.00 EA 2,117 371 622 3,110 FAL Breast Wall 1.00 EA 2,117 371 622 3,110 FAL Breast Wall 1.00 EA 4,849 4,849 1,424 7,122 FAL Pile Cap 1.00 EA 4,849 4,849 1,424 7,122		066	173	291	1,454	1453.53
1.00 EA 852 149 250 1,252						
The Baffles	1.00 EA	852	149	250	1,252	1251.75
Top Slabs At Culvert Readway Readway Top Slab At Culvert Readway Top Slab At Culvert Readway Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At Culvert Top Slab At S	1.00 EA	852	149	250	1,252	1251.75
Top Slab At Culvert 1.00 EA 15,937 2,789 4,682 23,408 Roadway 1.00 EA 2,713 475 797 3,984 Operating Platform 1.00 EA 2,713 475 736 1,182 TAL Elevated Slabs 1.00 EA 19,455 3,405 5,715 28,574 Breast Wall 1.00 EA 2,117 371 622 3,110 Ie Cap 1.00 EA 4,849 849 1,424 7,122 TAL Pile Cap 1.00 EA 4,849 1,424 7,122						
TAL Elevated Slabs 1.00 EA 19,455 3,405 5,715 28,574 aast Wall 1.00 EA 2,117 371 622 3,110 le Cap 1.00 EA 4,849 849 1,424 7,122 TAL Pile Cap 1.00 EA 4,849 849 1,424 7,122		15,937 2,713 804	2,789 475 141	4,682	23,408 3,984	3984.
Breast Wall Breast Wall 1.00 EA 2,117 371 622 3,110 1.00 EA 2,117 371 622 3,110 1.00 EA 4,849 849 849 1,424 7,122 TAL Pile Cap TAL Pile Cap 1.00 EA 4,849 849 1,424 7,122		19,455	3,405	5,715	28,574	28573.81
Breast Wall 1.00 EA 2,117 371 622 3,110 TAL Breast Wall 1.00 EA 2,117 371 622 3,110 Le Cap 1.00 EA 4,849 849 1,424 7,122 TAL Pile Cap 1.00 EA 4,849 849 1,424 7,122						
TAL Breast Wall 1.00 EA 2,117 371 622 3,110 le Cap 1.00 EA 4,849 849 1,424 7,122 TAL Pile Cap 1.00 EA 4,849 849 1,424 7,122	1.00 EA	2,117	371	622	3,110	3109.57
Le Cap Pile Cap 1.00 EA 4,849 849 1,424 7,122 TAL Pile Cap 1.00 EA 4,849 849 1,424 7,122	1.00 EA	2,117	371	622	3,110	3109.57
Pile Cap 1.00 EA 4,849 849 1,424 7,122						
1.00 EA 4,849 849 1,424 7,122	1.00 EA	4,849	849	1,424	7,122	7122.25
	1.00 EA	4,849	849	1,424	7,122	7122.25
07.01.03.10 Seal Concrete			EA EA EA EA EA EA EA EA EA EA EA EA EA E	EA 176,604 EA 2,300 EA 6,380 EA 6,380 EA 229,988 EA 229,988 EA 852 EA 852 EA 852 EA 852 EA 854 EA 2,117 EA 2,117 EA 2,117 EA 4,849 EA 4,849	EA 176,604 30,906 EA 2,876 1,028 EA 10,142 1,775 EA 229,988 40,248 EA 229,988 40,248 EA 391 68 EA 852 149 EA 852 149 EA 2,713 EA 2,117 EA 2,117 EA 4,849 EA 4,849 EA 4,849 EA 4,849	EA 21,300 51,877 259,387 51,877 259,387 5,870 5,870 5,870 5,870 5,870 1,284 5,876 1,028 1,775 2,979 14,896 6,880 6,887 1,695 2,844 6,14,228 6,880 6,887 1,695 2,844 6,14,228 6,880 6,887 1,695 1,795 2,844 6,14,228 6,880 6,887 1,695 1,795 2,844 6,14,228 6,880 6,887 1,990 1,795 2,844 6,14,228 8,800 6,887 1,252 6,880 6,882 1,990 1,795 1,454 6,882 1,945 6,882 1,945 6,882 1,945 6,882 1,442 6,882 1,1424 7,122 6,884 6,884 6,884 6,849 1,4424 7,122 6,884 6,884 6,884 6,849 1,4424 7,122 6,884 6,885 1,102 6,884 6,885 1,4424 7,122 6,884 6,885 1,122 6,884 6,885 1,1424 7,122 6,884 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6,885 1,1424 7,122 6,884 6

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST
07.01.03.10.01 Seal Concrete	1.00 EA	56,056	9,810	16,466	82,332
TOTAL Seal Concrete	1.00 EA	56,056	9,810	16,466	82,332
TOTAL Concrete	1.00 EA	361, 222	63,214	106,109	530,544
07.01.04 Erosion Control System	1.00 JB	19, 509	3,414	5,731	28,653
	1.00 EA	170,842	29,897	50,185	250,924
	1.00 EA	356,764	62,434	104,799	523,997
07.01.95 Equipment Building	1.00 JB 1.00 EA	61,536 386,585	10,769	18,076	90,381
TOTAL Gate S3	1.00 EA	1,512,861	264,751	444,403	2,222,015
07.02 Gate \$10					
07.02.01 Excavation 07.02.02 Sheet Piling	1.00 JB 1.00 EA	4,505 212,839	788	1,323	6,616 6616.12 312,607 312606.58
07.02.03 Concrete					
07.02.03.01 Slab On Grade					
07.02.03.01.01 Bridge Approach Slab 07.02.03.01.02 Ladder Platform	1.00 EA 1.00 EA	3,526	617 657	1,036	5,179
V. VZ. V3.VI. V3 Apron Slab	1.00 EA	173,290	30,326	50,904	254,519
TOTAL Slab On Grade	1.00 EA	180,571	31,600	53,043	265,214 265213.57
07.02.03.02 Walls					
07.02.03.02.01 Abutment 07.02.03.02.02 Pier	1.00 EA 1.00 EA	74,378	13,016 13,296	21,849 22,319	109,243 109242.63 111,594 111593.93
TOTAL Walls	1.00 EA	150,357	26, 312	44,167	220,837 220836.56
07.02.03.03 Columns					
07.02.03.03.01 Abutments 07.02.03.03.02 Piers	1.00 EA 1.00 EA	9,128 10,140	1,597	2,681	13,407
TOTAL Columns	1.00 EA	19,268	3, 372	5, 660	28,300
07.02.03.04 Weir					

07.02.03.04 Weir

Currency in DOLLARS

CREW ID: NATGIA UPB ID: UP01EA

LABOR ID: C43RES EQUIP ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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TIME	SUMMARY

	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	TINO
07.02.03.04.01 Under Roller Gate	1.00 EA	6,634	1,161	1,949	9,744	9744.14
TOTAL Weir	1.00 EA	6,634	1,161	1,949	9,744	9744.14
07.02.03.05 Sill						
07.02.03.05.01 Under Weir Gate	1.00 EA	3,160	553	928	4,641	4641.43
TOTAL SILL	1.00 EA	3,160	553	928	4,641	4641.43
07.02.03.06 Baffles						
07.02.03.06.01 Baffles	1.00 EA	3,712	029	1,090	5,452	5451.95
TOTAL Baffles	1.00 EA	3,712	650	1,090	5,452	5451.95
07.02.03.07 Elevated Slabs						
07.02.03.07.01 Service Bridge Slab 07.02.03.07.02 Operating Platform	1.00 EA 1.00 EA	24,488 11,971	4,285 2,095	7,193	35,966	35966.36 17581.90
TOTAL Elevated Slabs	1.00 EA	36, 458	6,380	10,710	53, 548	53548.27
07.02.03.08 Breast Wall						
07.02.03.08.01 Breast Wall	1.00 EA	2,561	448	752	3,761	3761.29
TOTAL Breast Wall	1.00 EA	2,561	448	752	3,761	3761.29
07.02.03.09 Pile Cap						
07.02.03.09.01 Pile Cap	1.00 EA	7,266	1,272	2,135	10,673	10672.56
TOTAL Pile Cap	1.00 EA	7,266	1,272	2,135	10,673	10672.56
07.02.03.10 Seal Concrete						
07.02.03.10.01 Seal Concrete	1.00 EA	91,454	16,004	26,865	134,323 134323.47	13432
TOTAL Seal Concrete	1.00 EA	91,454	16,004	26,865	134,323	134323.47
TOTAL Concrete	1.00 EA	501,442	87,752	147,299	736,493	736493.50
07.02.04 Erosion Control System	1.00 JB	23,413	4,097	6,877	34,387	34387.39

LABOR ID: C43RES EQUIP ID: C43RES

CREW ID: NAT01A UPB ID: UP01EA

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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0.7.02.06 kip Rap 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.02.18 grapment bailding 0.7.03.00 date SII 0.7.03 date SII 0		QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT
ation pling	07.02.06 Rip Rap 07.02.11 Electrical		27,858	4,875	8, 183	40,917	,
This date sign 1.00 EA 1.695,270 236,672 497,986 2,489,928 2,489 2,488 2,489,928 2,489 2,489 2,489 2,488 2,489 2,489 2,489 2,488 2,489 2,489 2,489 2,489 2,489 2,488 2,489 2		1.00 EA 1.00 JB 1.00 EA	3/4,950 61,536 136,230	65,616 10,769 23,840	110,142 18,076 40,018	550,708 90,381 200,088	
ation pling Piling P	TOTAL Gate \$10		1,695,270	296, 672	497,986	2,489,928	i
Abutment Salar Columns 1.00 EA 450,150 1,169 1,169 1,1962 9,810 etc. 1.00 EA 450,150 1,169 1,1962 9,810 etc. 1.00 EA 450,150 1,103	Gate						
bridge Approach Slab Ladder Platform Ladder Platform Ladder Platform Ladder Platform Ladder Platform Loo EA		1.00 JB 1.00 EA	6,679 450,150	1,169	1,962	9,810	
Bridge Approach Slab Lidder Platform Lidder Platform Lion EA 1.00 EA 273,724 47,902 80,406 402,032 1.00 EA 281,005 1.00 EA 281,005 1.00 EA 281,005 1.00 EA 281,005 49,176 82,545 412,726 41,103 82,545 412,726 41,103 82,545 412,726 41,103 1.00 EA 281,005 1.00 EA 281,005 1.00 EA 281,005 1.00 EA 281,005 1.00 EA 281,005 49,176 82,545 40,122 200,711 200,711 200,806 1.00 EA 21,419 41,105 1.00 EA 21,419 41,105 1.00 EA 21,419 41,101 41,101							
Bridge Approach Slab Lioder Platform Lioder Platform Apron Slab Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Platform Lioder Roller Gate Lioder Platform Lioder Weir Lioder Weir Gate Lioder Platform Lioder Weir Gate Lioder Platform Lioder Weir Gate Lioder Platform Lioder Weir Gate Lioder Platform Lioder Weir Gate Lioder Platform Lioder Weir Gate Lioder Platform Lioder Weir Gate Lioder Platform Lioder Weir Gate Lioder Mein Gate Lioder Weir Gate Lioder Wein Gate Lioder Wein Gate Lioder Wein Gate Lioder Wein Gate Lioder Wein Gate Lioder Wein Gate Lioder Mein Gate Lioder Mein Gate Lioder Mein Gate Lioder Mein Gate Lioder Mein Gate Lioder Mein Gate Lioder Mein Gate Lioder Gate L							
The Stab on Grade	Bridge Approach Ladder Platform Apron Slab		3,526 3,755 273,724	617 657 47,902	1,036 1,103 80,406	5,179 5,516 402,032	4
Abutment 1.00 EA 122,414 21,422 35,959 179,795 1700 EA 136,654 23,915 40,142 200,711 1.00 EA 259,068 45,337 76,101 380,506 1.00 EA 259,068 45,337 76,101 380,506 1.00 EA 21,297 2,479 4,161 20,806 1.00 EA 23,294 4,076 6,843 34,213 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 1.00 EA 52,489 9,188 1.00 EA 52,489 9,186 1.00 EA 52,489 9,186 1.00 EA 52,489 9,186 1.00 EA 52,489 9,186 1.00 EA 52,489 9,186 1.00 EA 52,489 9,186 1.00 EA 52,489 9,186 1.00 EA 52,489 9,186 1.00 EA 52,489 9,188 1.00 EA 52,	TOTAL Slab On Grade		281,005	49,176	82,545	412,726	
Abutment 1.00 EA 122,414 21,422 35,959 179,795							
TAL Walls 1.00 EA 259,068 45,337 76,101 380,506 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	01	1.00 EA 1.00 EA	122,414 136,654	21, 422 23, 915	35,959 40,142	179,795	179795.21
Abbutments Abbutments 1.00 EA 9,128 1,597 2,681 13,407 Piers 1.00 EA 23,294 4,076 6,843 34,213 I.00 EA 52,489 9,186 15,419 77,093 TAL Columns I.00 EA 52,489 9,186 15,419 77,093 TAL Weir Under Weir Gate 1.00 EA 52,489 9,183 1,607 2,698 13,488	TOTAL Walls	1.00 EA	259,068	45,337	76,101	380,506	38050
Abbutments Piers 1.00 EA 14,165 2,479 4,161 20,806 TAL Columns 1.00 EA 23,294 4,076 6,843 34,213 Tr. Onder Roller Gate 1.00 EA 52,489 9,186 15,419 77,093 TAL Weir 1.00 EA 52,489 9,186 15,419 77,093 TAL Weir 1.00 EA 52,489 9,186 15,419 17,093 TR. Weir Gate 1.00 EA 52,489 9,186 15,419 17,093							
TAL Columns 1.00 EA 23,294 4,076 6,843 34,213 Lr Lr Under Roller Gate 1.00 EA 52,489 9,186 15,419 77,093 TAL Weir L1 L1 L2 L3 L3 L3 L4 L5 L5 L5 L5 L5 L5 L5	01	1.00 EA	9,128 14,165	1,597	2,681	13,407	13407.13
Under Roller Gate 1.00 EA 52,489 9,186 15,419 77,093 1.00 EA 52,489 9,186 15,419 77,093 11,00 EA 52,489 9,186 15,419 17,093 11,003 1.00 EA 10.00 EA 10.183 1,607 2,698 13,488	TOTAL Columns	1.00 EA	23,294	4,076	6,843	34,213	34212.65
Under Roller Gate 1.00 EA 52,489 9,186 15,419 77,093 TAL Weir 1.00 EA 52,489 9,186 15,419 77,093 Under Weir Gate 1.00 EA 9,183 1,607 2,698 13,488							
TTAL Weir 1.00 EA 52,489 9,186 15,419 77,093 111 1.00 EA 9,183 1,607 2,698 13,488	07.03.03.04.01 Under Roller Gate	1.00 EA	52,489	9,186	15,419	77,093	77093.34
Under Weir Gate 1.00 EA 9,183 1,607 2,698 13,488	TOTAL Welt	1.00 EA	52, 489	9,186	15,419	77,093	7709
Under Weir Gate 1.00 EA 9,183 1,607 2,698 13,488							
		1.00 EA	9,183	1,607	2,698	13,488	1348

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Plorida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
TOTAL SILL	1.00 EA	9,183	1,607	2,698	13,488	13487.82
07.03.03.07 Elevated Slabs						
07.03.03.07.01 Service Bridge Slab 07.03.03.03.07.02 Operating Platform	1.00 EA 1.00 EA	50,602 16,480	8,855	14,864	74,322	74321.93
TOTAL Elevated Slabs	1.00 EA	67,083	11,739	19,706	98,528	98527.51
07.03.03.08 Breast Wall						
07.03.03.08.01 Breast Wall	1.00 EA	2,257	395	663	3,314	3314.40
TOTAL Breast Wall	1.00 EA	2,257	395	663	3,314	3314.40
07.03.03.09 Pile Cap						
07.03.03.09.01 Pile Cap	1.00 EA	7,266	1,272	2,135	10,673	10672.56
TOTAL Pile Cap	1.00 EA	7,266	1,272	2,135	10,673	10672.56
07.03.03.10 Seal Concrete	٠					
07.03.03.10.01 Seal Concrete	1.00 EA	135, 677	23,744	39,855	199,276	199,276 199275.93
TOTAL Seal Concrete	1.00 EA	135, 677	23,744	39,855	199,276	199,276 199275.93
TOTAL Concrete	1.00 EA	837,322	146,531	245,963	1,229,817	1229817
	1.00 JB	30,486	5,335	8,955	44,777	44776.61
07.03.05 Gates 07.03.06 Rip Rap	1.00 EA	518,168	90,679	152,212	761,060	761059.98
	1.00 EA	384,236	67,241	112,869	564,347	564347.22
	1.00 JB 1.00 EA	61,536 28,054	10,769 4,910	18,076 8,241	90,381 41,205	90380.61 41204.82
TOTAL Gate S11	1.00 EA	2,361,435	413,251	693, 672	3,468,358	3468358
TOTAL Perimeter Canal Structures	1.00 EA	5, 569, 566	974,674	1,636,060	8, 180, 300	8180300
08 Crested Spillway						
08.01 Gate CS1 Crest Spillway						
08.01.02 Sheet Piling	1.00 EA	7,568	1,324	2,223	11,115	11114.90
				1111111111	1 1 1 1 1 1 1 1 1	

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. AIMy Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
TOTAL Sheet Piling	1.00 EA	7,568	1,324	2,223	11,115	11,115 11114.90
08.01.03 Concrete						
08.01.03.01 Conduits						
08.01.03.01.10 Boxed Conduit						
08.01.03.01.10.01 Conduit Base Slab 08.01.03.01.10.02 Top Slab 08.01.03.01.10.03 Walls	1.00 EA 1.00 EA 1.00 EA	15,922 17,578 16,359	2,786 3,076 2,863	4,677 5,163 4,806	23,385 25,817 24.028	23385.48 25817.31 24027 88
TOTAL Boxed Conduit	1.00 EA	49,859	8,725	14,646	73,231	73230.67
08.01.03.01.15 U-Shaped Conduit						
08.01.03.01.15.01 Base Slab 08.01.03.01.15.02 Walls	1.00 EA 1.00 EA	17,517	3,065	5, 146 5, 300	25,728 26,498	25728.09
TOTAL U-Shaped Conduit	1.00 EA	35,558	6, 223	10,445	52,226	52225,98
TOTAL Conduits	1.00 EA	85,417	14,948	25,091	125,457	125,457 125456.65
08.01.03.02 Weir Inlet						
08.01.03.02.01 Welr Inlet						
08.01.03.02.01.01 Base Slab 08.01.03.02.01.02 Weir 08.01.03.02.01.03 Transition To Conduit	1.00 EA 1.00 EA 1.00 EA	28,244 19,596 3,959	4,943 3,429 693	8,297 5,756 1,163	41,484 28,781 5,815	41483.71 28781.25 5814.70
TOTAL Weir Inlet	1.00 EA	51,799	9,065	15,216	76,080	76079.66
TOTAL Weir Inlet	1.00 EA	51,799	9,065	15,216	76,080	76079.66
08.01.03.04 Stilling Basin						
08.01.03.04.01 Stilling Basin Parabolic						
08.01.03.04.01.01 Walls 08.01.03.04.01.02 Base Slab 08.01.03.04.01.03 Ton Slab	1.00 EA 1.00 EA	46,708	8,174 4,029	13,720 6,763	68,602	68601.96
		79,715	13,950	23,416	117,082	7

08.01.03.04.02 Stilling Hydraulic Jump Basin

Currency in DOLLARS

EQUIP ID: C43RES LABOR ID: C43RES

U.S. Army Corps of Engineers
PROJECT C43Rest Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
08.01.03.04.02.01 Walls	1.00 EA	68.845	12.048	20 223		10 31110 311 10
	1.00 EA	27,128	4,747	7, 969	•	39844 44
08.01.03.04.02.03 Shear Key	1.00 EA	712	125	209		1045,93
	1.00 EA	147	56	43	217	
08.01.03.04.02.03 BING SILL	1.00 EA	365	64	107	536	
	1.00 EA	4,518 3,517	791 616	1,327	6, 636	5166 11
					2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
TOTAL Stilling Hydraulic Jump Basin	1.00 EA	105,233	18, 416	30,912	154,562	154561.51
TOTAL Stilling Basin	1.00 EA	184,949	32,366	54,329	271,644	271,644 271643.57
TOTAL Concrete	1.00 EA	322,165	56,379	94,636	473,180	473,180 473179.88
08.01.06 Rip Rap 08.01.90 Miscellaneous	1.00 EA 1.00 EA	50,976 11,479	8,921	14,974	74,871	74870.69
TOTAL Gate CS1 Crest Spillway	1.00 EA	392,187	68, 633	115,205	576,025	576,025 576024.59
08.02 Gate CS2 Crest Spillway						
08.02.02 Sheet Piling	1.00 EA	7,568	1,324	2,223	11,115	11114.90
TOTAL Sheet Piling	1.00 EA	7,568	1,324	2, 223	11,115	11114.90
08.02.03 Concrete						
08.02.03.01 Conduits						
08.02.03.01.10 Boxed Conquit						
08.02.03.01.10.01 Conquit Base Slab 08.02.03.01.10.02 Top Slab 08.02.03.01.10.03 Walls	1.00 EA 1.00 EA 1.00 EA	15,859 17,515 16,315	2,775 3,065 2,855	4,659 5,145 4,793	23, 293 25, 725 23, 963	23293.06 25724.90 23962.97
TOTAL Boxed Conduit	1.00 EA	49, 689	969'8	14,596	72,981	72980.93
08.02.03.01.15 U-Shaped Conduit						
08.02.03.01.15.01 Base Slab 08.02.03.01.15.02 Walls	1.00 EA 1.00 EA	11,260 11,652	1,971 2,039	3,308	16,539	16538.85
TOTAL U-Shaped Conduit	1.00 EA	22,913	4,010	6, 731	33,653	33653.12
TOTAL Conduits	1.00 EA	72, 602	12,705	21, 327	106,634	106,634 106634.05

08.02.03.02 Weir Inlet

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly **	ngineers : - South Florida (- Assembly **	Nater Managemer	ĵţ.		TIME 09: SUMMARY PAGE	TIME 09:25:13 ARY PAGE 35
	QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
08.02.03.02.01 Weir Inlet)
08.02.03.02.01.01 Base Slab 08.02.03.02.01.02 Weir	1.00 EA 1.00 EA	28,244	4,943	8,297	41,484	41483.71
	1.00 EA	3,959	693	1,163	5,815	5814.70
TOTAL Weir Inlet	1.00 EA	51,799	9,065	15,216	76,080	76079.66
TOTAL Weir Inlet	1.00 EA	51,799	9,065	15,216	76,080	76079.66
08.02.03.04 Stilling Basin						
08.02.03.04.01 Stilling Basın Parabolic						
08.02.03.04.01.01 Walls 08.02.03.04.01.02 Base Slab	1.00 EA 1.00 EA	32,911 15,188	5,759 2,658	9,668	48,338	48338.00 22306.95
TOTAL Stilling Basin Parabolic	1.00 EA	48,099	8,417	14,129	70,645	70644.95
08.02.03.04.02 Stilling Hydraulic Jump Basin						
08.02.03.04.02.01 Walls	1.00 EA	26.999	4 725	7 631	2000	000
08.02.03.04.02.02 Base Slab		14,018	2,453	4,118	20,589	20589.43
08.02.03.04.02.04 Chute Blocks	1.00 EA	697	122	205	1,024	1024.29
08.02.03.04.02.05 Baffle Blocks	1.00 EA	480	84	141	706	705.61
	1.00 EA 1.00 EA	350 4,361	61 763	103 1,281	514 6,405	514.14 6405.29
TOTAL Stilling Hydraulic Jump Basin	1.00 EA	47,053	8,234	13,822	69,110	69109.68
TOTAL Stilling Basin	1.00 EA	95,152	16,652	27,951	139,755	139754.63
TOTAL Concrete	1.00 EA	219,553	38,422	64,494	322,468	322468.33
08.02.06 Rip Rap 08.02.90 Miscellaneous	1.00 EA 1.00 EA	39,172 10,161	6,855	11,507	57,534	57533.99 14923.49
TOTAL Gate CS2 Crest Spillway	1.00 EA	276,453	48,379	81,208	406,041	406040.71
TOTAL Crested Spillway	1.00 EA	668,640	117,012	196,413	982,065	982,065 982065.30
09 Gated Culvert						
09.01 Gate S7						
09.01.03 Concrete						

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECT OWNER SUMMARY - Assembly **

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09.01.03.01 Slab on Grade 09.01.03.01 Ol Base Slab TOTAL Slab on Grade 1.00 EA 72,446 12,678 21,281 106,405 106405,32 09.01.03.07 Elevated Slabs 1.00 EA 65,174 11,405 19,021 31,928 195,639 159518,82 09.01.03.07 Elevated Slabs 1.00 EA 65,174 11,405 19,145 95,724 99724,39 TOTAL Deams 1.00 EA 65,174 11,405 19,145 95,724 99724,39 1.00 EA 65,174 11,405 19,145 95,724 99724,39 1.00 EA 65,174 11,405 19,145 95,724 99724,39 1.00 EA 65,174 11,405 19,145 95,724 99724,39 1.00 EA 65,174 11,405 19,145 95,724 99724,39 1.00 EA 65,174 11,405 19,145 95,724 99724,39 09.01.03.08 beams 1.00 EA 65,174 11,405 19,145 95,724 99724,39 1.00 EA 65,174 11,405 19,145 95,724 99724,39 1.00 EA 65,174 11,405 19,145 95,724 99724,39 09.01.03 Experience dutiding 1.00 EA 1,259 19,87 90,187 95,987 96,981 99724,39 09.01.03 Grade S) 09.02.03 Grade S) 09.02.03.03 Grade S) 1.00 EA 43,054 10,054 19,021 11,381 11,3		QUANTY UOM	CONTRACT	ESCALATN	CONTINGN	CONTINGN TOTAL COST UNIT COST	UNIT COST
TOTAL Slab On Grade 1.00 EA 72,446 12,678 21,281 12,678 12,678 21,281 12,678 12,67							
TOTAL Slab On Grade	.01 Base	1.00 EA	72,446	12,678	21,281	106, 405	106405.32
1.00 EA 108,690 19,021 31,928 1.00 EA 1.00 E	TOTAL Slab On Grade	1.00 EA	72,446	12,678	21,281	106, 405	106405.32
1.00 EA 65,174 11,405 19,145 95,724 10.01 Elevated Slabs 1.00 EA 65,174 11,405 19,145 95,724 10.01 Elevated Slabs 1.00 EA 65,174 11,405 19,145 95,724 10.01 Elevated Slabs 1.00 EA 2,259 395 664 3,318 10.01 Elevated Slabs 1.00 EA 2,259 395 664 3,318 10.01 Elevated Slabs 1.00 EA 2,259 395 664 3,318 10.01 Elevated Slabs 1.00 EA 2,259 395 664 3,318 1.00 EA 2,100 EA		1.00 EA	108,690	19,021	31,928	159, 639	159638.82
100 EA 100 EA 11,405 11,405 19,145 95,724 101 AL Elevated Slabs 1.00 EA 65,174 11,405 19,145 95,724 101 AL Elevated Slabs 1.00 EA 65,174 11,405 19,145 95,724 102 Beams 1.00 EA 2,259 395 664 3,318 103 Beams 1.00 EA 2,259 395 664 3,318 103 ELEVATE CONCrete 1.00 EA 2,48,569 43,500 73,017 365,068 103 ELEVATE CONCRETE 1.00 EA 2,599 2,397 3,017 365,068 104 ELEVATE CONCRETE 1.00 EA 36,784 6,109 13,319 1,346 1,							
TOTAL Elevated Slabs 1.00 EA 65,174 11,405 19,145 95,724 108 Elecams 1.00 EA 2,259 395 664 3,318 1.00 EA 2,259 395 664 3,318 1.00 EA 2,259 395 664 3,318 1.00 EA 2,259 395 664 3,311 1.00 EA 2,259 395 664 3,311 1.00 EA 2,259 395 664 3,311 1.00 EA 2,259 10.00 EA 2,250 10.00 EA 2	.01	1.00 EA	65,174	11,405	19, 145	95,724	95724.29
08. Deams 1.00 EA 2,259 395 664 3,318 TOTAL Beams 1.00 EA 2,259 395 664 3,318 TOTAL Beams 1.00 EA 2,259 395 664 3,318 1.00 EA 248,569 43,500 73,017 365,086 1.00 EA 10,119 18,746 73,017 365,086 1.00 EA 10,119 18,746 11,751 11,	TOTAL Elevated Slabs	1.00 EA	65,174	11,405	19,145	95,724	95724.29
1.00 EA 2,259 395 664 3,318 1.01 EA 2,259 395 664 3,318 1.01 EA 2,259 395 664 3,318 1.01 EA 2,259 395 664 3,318 2,31							
TOTAL Beams TOTAL Beams TOTAL Beams TOTAL Concrete TOTAL Concrete TOTAL Concrete TOTAL Concrete TOTAL Concrete TOTAL Concrete TOTAL Concrete TOTAL Concrete TOTAL Concrete TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Cate ST TOTAL Slab On Grade TOTAL Slab On Grade TOTAL Slab On Grade TOTAL Slab On Grade TOTAL Slab On Grade TOTAL Slab On Grade TOTAL Elevated Slabs TO		1.00 EA	2,259	395	664	3, 318	3317.67
TOTAL Concrete 1.00 EA 248,569 43,500 73,017 365,086	TOTAL Beams		2,259	395	664	3,318	3317.67
Erosion Control System 1.00 JB 107,119 18,746 31,466 157,331 156,924 100 EA 170,842 29,897 50,185 250,924 1.00 EA 1.00 EA 46,810 1.319 22,357 111,785	TOTAL Concrete		248,569	43,500	73,017	365,086	365086.10
1.00 EA 10.0	ഥ		107,119	18,746	31,466	157,331	
Rip brows 1.00 EA 76,109 To EA 76,109 To EA 13,319 To E3,357 To E3,357 To E3,319 To E3,357 To E3,329 To	G O		170,842	29,897	50,185	250,924	
Electrical Electrical Electrical Electrical Electrical Electrical Equipment Building Controls TOTAL Gate S7 TOTAL Gate S7 TOTAL Slab On Grade 01.00 EA	o Ed		76,109	13,319	22,357	111,785	
Equipment Building 1.00 JB 61,536 10,769 18,076 90,381 1.00 EA 257,693 45,096 75,697 378,486 1.00 EA 1,325,443 231,952 389,349 1,946,744 1.00 EA 30,191 5,283 8,869 44,343 1.00 EA 43,054 7,535 12,647 63,236 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108	ы		356,764	62,434	104,799	523,997	
TOTAL Gate S7 TOTAL Gate S7 TOTAL Gate S7 TOTAL Gate S7 TOTAL Gate S7 TOTAL Gate S7 TOTAL Gate S7 TOTAL Gate S7 TOTAL Gate S1 TOTAL Elevated Slabs	ωO		61,536	10,769	18,076	90,381	90380.61
Gate S7 1.00 EA 1,325,443 231,952 389,349 1,946,744 On Grade 1.00 EA 30,191 5,283 8,869 44,343 Slab On Grade 1.00 EA 30,191 5,283 8,869 44,343 ted Slabs 1.00 EA 43,054 7,535 12,647 63,236 ted Slabs 1.00 EA 17,095 2,992 5,022 25,108 Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108				42,036	15,697	378, 486	378486.42
On Grade 1.00 EA 30,191 5,283 8,869 44,343 Slab 1.00 EA 30,191 5,283 8,869 44,343 1.00 EA 43,054 7,535 12,647 63,236 ted Slabs 1.00 EA 17,095 2,992 5,022 25,108 Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108	TOTAL Gate S7		1,325,443	231,952	389, 349	1,946,744	1946744
On Grade Se Slab Slab On Grade 1.00 EA 30,191 S,283 8,869 44,343 1.00 EA 43,054 7,535 12,647 63,236 Elevated Slabs 1.00 EA 17,095 2,992 2,992 2,992 2,992 2,992 2,992 2,992 2,992 2,902 2,108	Gate						
Slab On Grade 1.00 EA 30,191 5,283 8,869 44,343 1.00 EA 30,191 5,283 8,869 44,343 1.00 EA 30,191 5,283 8,869 44,343 1.00 EA 43,054 7,535 12,647 63,236 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 17,0	09.02.03 Concrete						
Ol Base Slab 1.00 EA 30,191 5,283 8,869 44,343 TOTAL Slab On Grade 1.00 EA 30,191 5,283 8,869 44,343 Walls 1.00 EA 43,054 7,535 12,647 63,236 Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108 TOTAL Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108							
TOTAL Slab on Grade 1.00 EA 30,191 5,283 8,869 44,343 44,343 44,343 1.00 EA 43,054 7,535 12,647 63,236 Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108 TOTAL Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108	.01	1.00 EA	30,191	5,283	8,869	44,343	44342.52
Walls 1.00 EA 43,054 7,535 12,647 63,236 Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108 TOTAL Elevated Slabs 1.00 EA 17,095 2,992 5,022 25,108	TOTAL Slab On Grade	1.00 EA	30,191	5,283	8,869	44,343	44342.52
Elevated Slabs 01 Elevated Slab 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108		1.00 EA	43,054	7,535	12,647	63,236	63236.27
.01 Elevated Slab 1.00 EA 17,095 2,992 5,022 25,108 1.00 EA 17,095 2,992 5,022 25,108							
1.00 EA 17,095 2,992 5,022 25,108		1.00 EA	17,095	2, 992	5,022	25,168	25108.34
	TOTAL Elevated Slabs	1.00 EA	17,095	2,992	5,022	25,108	25108.34

EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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SUMMARY PAGE

40,111 40111.27 91,775 91774.74 45,513 45512.53 36,464 36464.40 523,997 52396.89 90,381 90380.61 266,622 266621.53 TOTAL COST UNIT COST 2399.29 2399.29 135,086 135086.43 1229948 2,399 2,399 1,229,948 CONTINGN 27,017 8,022 18,355 9,103 7,293 104,799 18,076 53,324 480 480 245,990 16,095 4,779 10,935 5,423 4,345 62,434 10,769 31,768 4,245 ESCALATN 286 286 146,547 91,974 62, 485 30, 987 24, 827 356, 764 61, 536 CONTRACT 1,634 1,634 24,258 837,412 QUANTY UOM 1.00 JB 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 JB 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA

Erosion Control System

Gates Stop Logs Rip Rap Electrical

09.02.04 09.02.05 09.02.06 09.02.07 09.02.11 09.02.15

TOTAL Concrete

TOTAL Beams

09.02.03.08.01 Needle Beams

09.02.03.08 Beams

TOTAL Gate S9

Equipment Building Controls

09.03.03 Concrete

09.03 Gate S14

09.03.03.01 Slab On Grade

09.03.03.01.01 Base Slab

35628.27 35628.27 63183.71

35,628

35,628

7,126

4,245

24,258 43,019

1.00 EA ΕA

1.00

63, 184

12,637

7,528

12580.09 12580.09

12,580 12,580

2,516 2,516

1,499

1,499

8,565 8,565

EA

1.00 1.00

ΕÀ

1720.64 1720.64

1,721

344 344 22,623

205 205

1,172 1,172 77,013

1.00 EA 1.00 EA

09.03.03.03 Walls

TOTAL Slab On Grade

09.03.03.07 Elevated Slabs

09.03.03.07.01 Elevated Slab

TOTAL Elevated Slabs

09.03.03.08 Beams

09.03.03.08.01 Needle Beams

Erosion Control System

TOTAL Concrete

TOTAL Beams

Gates Stop Logs Rip Rap Electrical 09.03.04 09.03.05 09.03.06 09.03.07 09.03.11 UPB ID: UP01EA ID: NAT01A CREW

18,510 18510.10 107,786 107786.26 55,893 55892.58 42,509 42509.21 504,039 504039.06

3,702 21,557 11,179 8,502 100,808

2,205 12,843 6,660 5,065 60,056

12,603 73,386 38,055 28,942 343,176

1.00 JB 1.00 EA 1.00 EA 1.00 EA 1.00 EA

113,113 113112.72

13,477

1.00 EA

1,721

Currency in DOLLARS

EQUIP ID: C43RES

LABOR ID: C43RES

18,076 90,381 90380.61 103,233 516,166 516166.28 289,679 1,448,397 1448397

10,769 61,501

61,536 351,432 986, 143

1.00 JB 1.00 EA

Equipment Building Controls

09.03.15

TOTAL Gate S14

1.00 EA

57384.46 57384.46 71334.98

57,384

11,477

6,837 6,837 8,499

39,070

TOTAL Slab On Grade

09.04.03.01 Slab On Grade

09.04.03 Concrete

09.04 Gate S15

09.04.03.01.01 Base Slab

39,070

1.00 EA 1.00 EA 48,568

1.00 EA

57,384

11,477 14,267

71,335

27939.42 27939.42

27,939 27,939

5,588

5,588

3,329

3,329

19,023

1.00 EA 1.00 EA

19,023

TOTAL Elevated Slabs

09.04.03.07.01 Elevated Slab

09.04.03.07 Elevated Slabs

09.04.03.03 Walls

3454.75 3454.75

691 691 32,023

412 412 19,077

> 2,352 109,014

> > 1.00 EA

1.00 EA

Erosion Control System

Gates

Stop Logs Rip Rap Electrical

TOTAL Concrete

TOTAL Beams

2,352

1.00 EA

09.04.03.08.01 Needle Beams

09.04.03.08 Beams

160,114 160113.61

3,455 3,455

TOTAL COST UNIT COST

CONTINGN

ESCALAIN

CONTRACT

QUANTY UOM

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SUMMARY PAGE

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittai ** PROJECT OWNER SUWMARY - Assembly **

PROJECT C43RES:

Currency in DOLLARS

CREW ID: NAT01A UPB ID: UP01EA

43,294 43294.15 210,150 210150.34 103,002 103002.03 102,704 102704.46 523,997 52396.89 90,381 90380.61 567,796 567796.23

1801438

1,801,438

Equipment Building Controls TOTAL Gate S15 09.05.03 Concrete 09.05 Gate S16 09.04.04 09.04.05 09.04.07 09.04.11 09.04.15

8,659 42,030 20,600 20,541 104,799 18,076 113,559 360,288 5,158 25,039 12,273 12,237 62,434 10,769 67,652 214,639 29, 477 143, 081 70, 129 69, 926 356, 764 61, 536 1,226,511 1.00 JB 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 JB 1.00 EA 09.05.03.01 Slab On Grade

13,700 13699.55 103,002 103002.03 30,420 30419.59 43294.15 91774.74 51501.02 TIME 09:25:13 CONTINGN TOTAL COST UNIT COST 24441.17 24441.17 33937.94 9512.85 9512.85 67891.96 215,013 215013.13 30955.62 30955.62 53368.83 2399.29 99148.27 12424.54 12424.54 2399.29 SUMMARY PAGE 24,441 9,513 9,513 12,425 43,294 91,775 51,501 24,441 67,892 30,956 33,938 30,956 12,425 53,369 2,399 2,399 99,148 4,888 6,788 1,903 2,740 20,600 6,084 43,003 4,888 1,903 6,191 2,485 480 8,659 18,355 10,300 13,578 2,485 480 19,830 6,191 10,674 1,133 ESCALATN 2,912 2,912 1,133 8,089 1,632 12,273 3,624 25,619 4,044 3,688 3,688 1,480 1,480 11,813 6,359 286 286 U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** 21,076 16,641 16,641 23,107 6,477 6,477 46,224 9,327 70,129 20,711 146,392 21,076 8,459 8,459 1,634 67,505 29,477 62,485 35,065 1,634 CONTRACT 36,336 QUANTY UOM 1.00 JB 1.00 EA 1.00 EA 1.00 JB 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA TOTAL Elevated Slabs TOTAL Elevated Slabs 09.05.04 Erosion Control System 09.05.06 Stop Logs 09.05.07 Rip Rap 09.06.04 Erosion Control System 09.06.05 Gates 09.06.06 Stop Logs TOTAL Slab On Grade TOTAL Slab On Grade 09.05.03.07.01 Elevated Slab 09.06.03.07.01 Elevated Slab 09.06.03.08.01 Needle Beams 09.05.03.07 Elevated Slabs TOTAL Concrete TOTAL Gate S16 TOTAL Concrete 09.06.03.07 Elevated Slabs 09.06.03.01 Slab On Grade 09.05.03.01.01 Base Slab 09.06.03.01.01 Base Slab TOTAL Beams PROJECT C43RES: 09.06.03 Concrete 09.06.03.03 Walls 09.06.03.08 Beams 09.05.03.03 Walls 09.06 Gate S17

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A

UPB ID: UP01EA

U.S. Army Corps of Engineers C43 West Storage Reservoir - South Florida Water Management 30% Submittal ** PROJECT OWNER SUMMARY - Assembly ** PROJECT C43RES:

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SUMMARY PAGE

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25,601 25600.67 87,253 87253.19 90,381 90380.61 602,216 602216.20 22, 623 22623.09 91,775 91774.74 53,497 53497.18 25,245 25244.58 524,011 524011.37 90,381 90380.61 599,910 599910.18 1091169 CONTINGN TOTAL COST UNIT COST 32,327 32326.64 32326.64 48349.15 19706.15 19706.15 2291.11 2291.11 102,673 102673.05 1510115 19,706 2,291 1,091,169 32,327 19,706 2,291 48,349 1,510,115 4,525 18,355 10,699 5,049 104,802 18,076 5,120 17,451 18,076 120,443 458 6,465 6,465 9,670 3,941 218,234 3,941 458 20,535 302,023 2,348 3,050 10,396 10,769 71,753 ESCALATN 3,852 3,852 12,233 2,696 10,935 6,374 3,008 62,435 10,769 71,479 130,012 5,761 273 273 179,929 17,430 59,406 61,536 410,020 742,923 22,010 22,010 13,417 1,560 1,560 69, 905 15, 403 62, 485 36, 424 17, 188 356, 774 61, 536 CONTRACT 32,919 1,028,163 QUANTY UOM 1.00 EA 1.00 EA 1.00 JB 1.00 EA 1.00 JB 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 JB 1.00 EA ΕA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 EA 1.00 1 TOTAL Elevated Slabs TOTAL Slab On Grade Erosion Control System Rip Rap Electrical Equipment Building Controls 09.07.03.07.01 Elevated Slab Electrical Equipment Building Controls 09.07.03.08.01 Needle Beams TOTAL Gate S17 09.07.03.07 Elevated Slabs TOTAL Concrete TOTAL Gate S18 09.07.03.01 Slab On Grade 09.08.03.01 Slab On Grade 09.07.03.01.01 Base Slab TOTAL Beams Stop Logs 09.07.03 Concrete 09.07.03.03 Walls 09.07.03.08 Beams 09.08.03 Concrete Rip Rap 09.07 Gate S18 09.08 Gate S19 Gates 09.06.07 09.06.11 09.06.15 09.06.95 09.07.04 09.07.05 09.07.06 09.07.11 09.07.15

> EQUIP ID: C43RES LABOR ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECI C43Res: C43 West Storage Reservoir - South Florida Water Management
30% Submittal
** PROJECI OWNER SUMMARY - Assembly **

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	QUANTY UOM	CONTRACT	ESCALAIN	CONTINGN	TOTAL COST UNIT COST	UNIT COST
09.08.03.01.01 Base Slab	1.00 EA	18,156	3,177	5, 333	26,667	26667.01
TOTAL Slab On Grade	1.00 EA	18,156	3,177	5, 333	26,667	26667.01
09.08.03.03 Walls	1.00 EA	26,283	4, 600	7,721	38, 603	38603.29
09.08.03.07 Elevated Slabs						
09.08.03.07.01 Elevated Slab	1.00 EA	8,663	1,516	2,545	12,723	12723.38
TOTAL Elevated Slabs	1.00 EA	8,663	1,516	2,545	12,723	12723.38
09.08.03.08 Beams						
09.08.03.08.01 Needle Beams	1.00 EA	1,172	205	344	1,721	1720.64
TOTAL Beams	1.00 EA	1,172	205	344	1,721	1720.64
TOTAL Concrete	1.00 EA	54,274	9,498	15,943	79,714	79714.32
09.08.04 Erosion Control System	1.00 JB	12,600	2,205	3, 701	18,507	
•	1.00 EA	73,386	12,843	21,557	107,786	107786.26
09.08.07 Rip Rap		18,363	3,214	5,394	26,971	26970.71
	1.00 EA	343,176	60,056	100,808	504,039	504039.06
•		431,884	75,580	126,866	90,381 634,330	90380.61
TOTAL Gate S19	1.00 EA	1,022,944	179,015	300,490	1,502,450	1502450
TOTAL Gated Culvert	1.00 EA	7,315,931	1,280,288	2,149,055	10,745,274	10745274
10 Sitework						
10.01 Vehicle Barrier Gate	1.00 EA	4,691	821	1,378	6,890	6890.26
	1.00 EA	138,041	24,157	40,550	202,748	202748.19
10.10 Silt Fence	129402 LF	194,896	34,107	57,251	286,254	2.21
10.20 Access Road						
10.20.01 Toe Road/Access Road Shell Rock 10.20.02 Asphalt Paving	1.00 EA 1.00 EA	1,899,512 636,853	332,415 111,449	557,982 187,076	2,789,908 935,378	2789908 935377.90
TOTAL Access Road	1.00 EA	2,536,365	443,864	745,057	3,725,286	3725286
TOTAL SITEWOIK	1.00 EA	2, 986, 465	522, 631	877,274	4,386,370	4386370

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

U.S. Army Corps of Engineers
PROJECT C43RES: C43 West Storage Reservoir - South Florida Water Management
30% Submitta1
** PROJECT OWNER SUMMARY - Assembly **

SUMMARY PAGE 42

QUANTY UOM CONTRACT ESCALAIN CONTINGN TOTAL COST UNIT COST	QUANTY UOM	QUANTY UOM CONTRACT	ESCALATN	CONTINGN	CONTINGN TOTAL COST UNIT COST	UNIT COS
11 Site Electrical			1,			
11.01 Power Line Relocation	1.00 JB	815,000	142,625	239, 406	239,406 1,197,031	1197031
TOTAL Site Electrical	1.00 EA	815,000	142,625	239,406 1,197,031	239,406 1,197,031	1197031
TOTAL C43 West Storage Reservoir	1.00 EA	1.00 EA 227, 607, 274	39,831,273	66,859,637,334,298,183	66.859.637 334.298.183 334298183	33429818

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NATO1A UPB ID: UP01EA

TIME 09:25:13

Wed 31 May 2006 Eff. Date 05/31/06

Wed 31 May 2006 Eff. Date 05/31/06 ERROR REPORT

U.S. Army Corps of Engineers PROJECT C43Res: C43 West Storage Reservoir - South Florida Water Management 30% Submittal

TIME 09:25:13

ERROR PAGE

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LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

LABOR ID: C43RES EQUIP ID: C43RES

Currency in DOLLARS

CREW ID: NAT01A

UPB ID: UP01EA

01. Gate Structure 01. Gate S1 02. Sheet Pilng 02. Sheet Pilng 03. Concrete 04. RLP Rap 05. Controls 05. Gates 05. Controls 05. Gates 06. Gates 07. Controls 08. Gates 08. Miscellaneous 09. Gates 09. Miscellaneous 09. Gates 09. Gates 09. Gates 09. Gates 09. Gates 09. Gates 09. Controls																									
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DETAILED ESTIMATE

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